

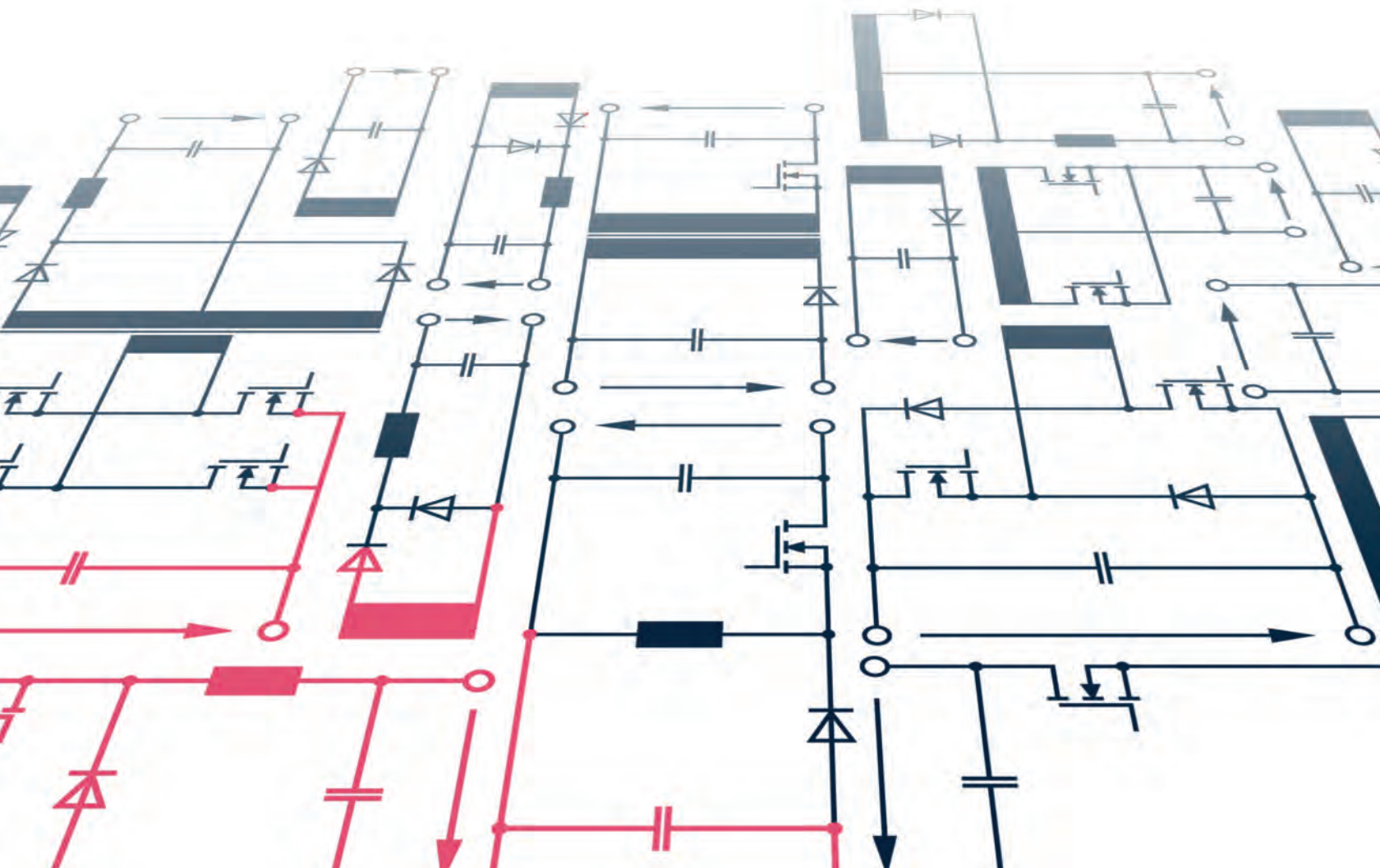


2019 | Short Form Selection Guide

AC/DC POWER SUPPLIES

DC/DC CONVERTERS

DIN RAIL POWER SUPPLIES





Company Profile

TRACO Electronic AG is a Swiss company with headquarters based in Baar, Switzerland. As a leading power supply specialist with more than 35 years' experience we are dedicated to the design and manufacturing of high quality DC/DC and AC/DC power conversion products.

TRACO POWER markets its products worldwide under the registered trademark TRACO POWER. Our mission is to provide our customers with optimal power supply solutions in terms of performance, quality and cost for their individual application.

Product Range

TRACO POWER's product range focuses on the following markets: Industrial & IT, Transportation & Railway, Medical & Healthcare, Test & Measurement, Automation & Control, Renewable Energy, Household Appliances and Oil & Gas. Within these markets TRACO POWER offers one of the most comprehensive programs for standard products.

Product Categories

- DC/DC Converter Modules, 1~300W
- AC/DC Power Supplies, 15~1000W
- Encapsulated AC/DC Power Modules, 2~100W
- DIN-Rail Mounting, 6~960 W

Market Specific Products

- Medical AC/DC Power Supplies, 5~450W
- Railway DC/DC Converters, 3~300W
- Medical DC/DC Converters, 2~30W
- Industrial Control Automation, 6~960W

Detailed product data can be downloaded from our website: **us.tracopower.com**

Compliance, Certification and Quality Management

TRACO POWER has a high reputation for global compliance with applicable regulations and directives allowing easier implementation of our products in our customer's applications. Our products are 100% tested and burned-in prior to shipment to guarantee full compliance to the applicable published specifications. Our safety critical products are globally certified to current standards in accordance to the applicable market segments. TRACO POWER's global manufacturing facilities are certified to ISO 9001/14000. Our commitment to quality is supported by a full 3 year product warranty and a 5 year warranty on our 2xMOPP Medical products.

Distribution, Availability and Sustainability

TRACO POWER distributes product through a global network of franchised distributors recognized in the industry for top-level design, stocking and supply chain services. The majority of products presented here and on our website are immediately available in our distribution channel along with substantial inventory from TRACO POWER's central Traco warehouse in Baar, Switzerland. With extended product life cycles, TRACO POWER better supports the life-time sustaining needs of markets where long term product availability is critical.

Global Sales / Engineering Support

To better support our distribution channels and direct customers, TRACO POWER has established sales and technical support centers in key locations, including:

North America

- Northern California
- Massachusetts

Europe

- Switzerland
- France
- Germany

Please contact a local TRACO POWER sales office or authorized distributor for application support and sample requirements for new projects or help in defining the best TRACO POWER solution for your unique requirement.

AC/DC Power Supplies

	Power	Page(s)
Open-Frame & Enclosed	15 ~ 1,000 Watts	3~6
Outdoor Power Supply	6 ~ 120 Watts	6
Medical Power Supplies	5 ~ 450 Watts	7~8
Encapsulated Chassis Mount	6 ~ 100 Watts	9
Encapsulated PCB Mount	2 ~ 60 Watts	10-12

DC/DC Converters

Non-Isolated Regulators	0.5 ~ 3 Amps	12
Isolated PCB Mount & SMD Converters	1 ~ 240 Watts	13~22
Chassis Mount Converters	6 ~ 300 Watts	23~24
Railway / Ruggedized Converters	3 ~ 300 Watts	25~26
Medical / Reinforced Insulation	2 ~ 30 Watts	27~28

DIN Rail Power Solutions

Optional Function modules		28
<i>DC UPS System, Buffer Module (AC Dips & Brownout Protection), and Redundancy Modules</i>		
Ruggedized / Harsh Environments	50 ~ 960 Watts	29~30
<i>UL508, UL60950-1, EN60204, EN61558, EN60079, UL1604, ATEX</i>		
General Purpose	6 ~ 480 Watts	31~32
<i>UL508, UL1310, UL60950-1</i>		
DC/DC Power Modules	6 ~ 300 Watts	33~34

Icons used throughout catalog:

	IEC/EN/ES 60601-1 3RD EDITION (BF rated 2xMOPP)		EN60335-1 Approved (household appliance)
	SAFETY CLASS II (no earth ground)		EN50155 / EN61373 (railway / ruggedized applications)
	ErP READY (low no-load power)		UL508 LISTED (industrial / DIN rail applications)
	HEATSINK OPTION (raise temp range by 5-10°C)		HAZARDOUS LOCATION (ATEX / UL HazLoc Class I Div 2)

15 Watt **TPP 15A-J**

- 2.61 x 1.00 x 0.64" - Open-Frame
- Single Output (3.3~48 V_{OUT})
- -40 ~ 85°C Convection
- See spec for derating >+60°C
- 84-88.5% Efficiency



15 Watt **TPP 15A-D**

- 1.5 x 1.00 x 0.80" - Open-Frame PCB Mount
- Single Output (3.3~48 V_{OUT})
- -40 ~ 85°C Convection
- See spec for derating >+60°C
- 84-88.5% Efficiency



15 Watt **TXL 015**

- 2.44 x 2.01 x 1.10" - Enclosed
- Single Output (3.3~48 V_{OUT})
- -20°C to +70°C Convection
- Derate 2%/K>+50°C
- 74-84% Efficiency
- Miniature Footprint



15 /25 Watt **TXM 015/025**

- 3.11 x 2.00 x 1.13" - Enclosed
- Single Output (3.3~24 V_{OUT})
- -25°C to +70°C Convection
- Derate 2%/K>+50°C
- Cost Optimized Design
- 70-89% Efficiency



25 Watt **TXL 025**

- 3.11 x 2.01 x 1.12" - Enclosed
- Single Outputs (3.3~48 V_{OUT})
- -20°C to +70°C Convection
- Derate 2%/K>+50°C
- 72-88% Efficiency



30 Watt **TPP 030A-D**

- 2.74 x 1.36 x 0.95" - Open-Frame
- Single Output (3.3~48 V_{OUT})
- -40 to +85°C Convection
- See spec for derating > +60°C
- 84-91.5% Efficiency



30 Watt **TPP 30A-J**

- 3.34 x 1.36 x 0.77" - Open-Frame
- Single Output (3.3~48 V_{OUT})
- -40°C to +85°C Convection
- See spec for derating >+60°C
- 84~91.5% Efficiency



35 Watt **TXM 035**

- 4.00 x 2.50 x 1.30" - Enclosed
- Single Output (5~48 V_{OUT})
- -25°C to +70°C Convection
- Derate 2%/K>+50°C
- 80~88% Efficiency
- Cost Optimized



35 Watt **TXL 035**

- 3.90 x 3.23 x 1.38" - Enclosed
- Single & Dual Output (3.3~48 V_{OUT})
- -20°C to +70°C Convection
- Derate 2%/K>+50°C
- 70-84% Efficiency



40 Watt **TPP 40A-J**

- 3.00 x 2.00 x 1.60" - Open-Frame
- Single Output (5~48 V_{OUT})
- -40°C to +85°C Convection
- See spec for derating >+65°C
- 90~92% Efficiency



40 Watt **TPP 40**

- Single: 3.53 x 2.38 x 1.31" - Enclosed
- Multi: 4.03 x 2.38 x 1.36" - Enclosed
- 5~24 V_{OUT} Outputs with 86 - 92% Efficiency
- -25°C to +85°C Convection
- Singles: Derate 2.75%/K>+65°C
- Multiples: Derate 1.67%/K>+55°C



50 Watt **TXM 050**

- 3.90 x 3.23 x 1.38" - Enclosed
- Single Output (5~48 V_{OUT})
- -25°C to +70°C Convection
- Derate 2%/K>+50°C
- 80~89% Efficiency
- Cost Optimized Design



ALL MODELS FEATURE:

- UL 60950-1 / UL 62368-1 Approved
- EN 55032 Class B conducted EMI
- 3 Year Warranty (ITE Models)
- 5 Year Warranty (Medical Models )

60 Watt TXH 060

- 3.14 x 2.35 x 1.50" - Enclosed
- Single Output (5~48 V_{OUT})
- -30°C to +70°C Convection
- See Spec for derating
- 81~88% Efficiency



50/60 Watt TXL 050/060

- Singles: 3.90 x 3.23 x 1.38" - Enclosed
- Single Outputs (5~24 V_{OUT})
- -20°C to +70°C Convection
- Derate 2%/K>+50°C
- 78~84% Efficiency



65 Watt TPP 65A-J

- 3.00 x 2.00 x 0.94" - Open Frame
- Single Output (5~48 V_{OUT})
- -40°C to +85°C Convection
- Derate 2.5%/K>+55°C
- 90~93% Efficiency



65 Watt TPP 65

- 3.53 x 2.38 x 1.31" - Enclosed
- Single Output (5~24 V_{OUT})
- -40 to +85°C Convection
- Derate 2%/K>+55°C
- 88.5~93.5% Efficiency



60/70 Watt TXL 060/070

- 6.26 x 3.74 x 1.50" - Enclosed
- Single / Dual / Triple Output (3.3~48V_{OUT})
- -20°C to +70°C Convection (Derate 2%/K>+45°C)
- 74~87% Efficiency



75 Watt TXM 075

- 5.08 x 3.90 x 1.50" - Enclosed
- Single (5~48 V_{OUT})
- -25°C to +70°C Convection (Derate 1.5%/K>+50°C)
- 80~89% Efficiency
- Cost Optimized Design



100 Watt TOP 100

- 4.00 x 2.00 x 1.25" - Open-Frame
- Single Output (5~48 V_{OUT})
- -25 ~ +70°C Convection
- Full load to +50°C
- 90~92% Efficiency
- Optional Chassis / Cover



100 Watt TPP 100A-J

- 3.00 x 2.00 x 1.16" - Open-Frame
- Single Output (12~48 V_{OUT})
- -25°C to +85°C Convection
- Derate 2%/K>+55°C
- 91~92% Efficiency



100 Watt TPP 100

- 3.60 x 2.44 x 1.54" - Enclosed
- Single Output (12~48 V_{OUT})
- -25°C to +85°C Convection
- Derate 2.4%/K>+60°C
- 91~92% Efficiency



100 Watt TXL 100

- 7.80 x 3.74 x 1.50" - Enclosed
- Single / Dual / Triple (3.3~48 V_{OUT})
- -20°C to +70°C Convection (Derate 2%/K>+45°C)
- 70~86% Efficiency



100 Watt TXM 100

- 5.08 x 4.18 x 1.50" - Enclosed
- Single Output (5~48 V_{OUT})
- -20°C to +60°C Convection (Derate 2.5%/K>+50°C)
- 84~88% Efficiency
- Cost Optimized Design



150 Watt TXM 150

- 6.30 x 3.87 x 1.50" - Enclosed
- Single Output (12~48 V_{OUT})
- -20°C to +70°C Convection
- Derate 1.67%/K>+40°C
- 86~88% Efficiency
- Cost Optimized Design



150 Watt**TXL 150**

- 7.83 x 3.90 x 1.97" - Enclosed
- Single Output (5~48 V_{OUT})
- -20°C to +70°C Convection
- Derate 2%/K > +50°C
- 77~86% Efficiency

**150 Watt****TPP 150A-J**

- 4.00 x 2.00 x 1.16" - Open-Frame
- Single Output (12~48 V_{OUT})
- -25°C to +85°C (10cfm air for full load)
- Derate 4%/K > +70°C
- 91~92% Efficiency



NEW

**150 Watt****TPP 150**

- 4.60 x 2.44 x 1.94" - Enclosed with Fan
- Single Output (12~48 V_{OUT})
- -25°C to +80°C (Integral Fan)
- Derate 4%/K > +70°C
- 91~92% Efficiency

**180 Watt****TPP 180A-J**

- 3.00 x 2.00 x 1.18" - Open-Frame
- Single Output (12~48 V_{OUT}) with 90~92% Efficiency
- -40°C to +85°C Convection (See Spec for Derating)



NEW - UNDER DEVELOPMENT

200 Watt**TOP 200**

- 5.00 x 3.00 x 1.34" - Open-Frame
- Single Output (12~48 V_{OUT})
- -25°C to +70°C Convection (See Spec for Derating)
- 88~95% Efficiency
- Remote On/Off
- Optional Chassis & Cover

**TXM 200****TXM 200**

- 7.83 x 3.90 x 1.98" - Enclosed
- Single Output (12~48 V_{OUT})
- -20°C to +65°C Convection
- Derate 3.3%/K > +50°C
- 87~88.5% Efficiency
- Cost Optimized Design

**230 Watt****TXL 230**

- 7.80 x 3.90 x 1.77" - Enclosed
- Single Output (12~48 V_{OUT})
- -20°C to +70°C Operation
- Derate 2.5%/K > +45°C
- 83~86% Efficiency
- Remote Sense & Remote On/Off

**240 Watt****TXH 240**

- 5.91 x 4.17 x 1.38" - U-Frame (optional Cover)
- Single Output (12~48 V_{OUT})
- -10°C to +70°C Convection
- Derate 2.5%/K > +50°C
- 90~93% Efficiency
- Optional Cover

**300 Watt****TPP 300A-J**

- 4.00 x 2.00 x 1.22" - Open-Frame
- Single Output (12~48 V_{OUT}) with 91~93% Efficiency
- -40°C to +85°C Convection (See Spec for Derating)
- Remote On/Off & Remote Sense



NEW - UNDER DEVELOPMENT

350 Watt**TXL 350**

- 8.35 x 4.53 x 1.97" - Enclosed with Fan
- Single Output (24~48 V_{OUT})
- -20°C to +70°C Operation (Derate 2%/K > +50°C)
- 86~88% Efficiency
- Remote Sense & Remote On/Off

**360 Watt****TXH 360**

- 7.78 x 3.20 x 1.50" - Enclosed with Fan
- Single Output (12~48 V_{OUT})
- -25°C to +70°C Operating (Derate 2.5%/K > +50°C)
- 89~93% Efficiency

**450 Watt****TPP 450**

- 5.83 x 3.15 x 1.60" - Enclosed with Fan
- Single Output (12~53 V_{OUT}) with 91~94% Efficiency
- -40°C to +80°C Operating (See Spec for Derating)
- 5V / 2A standby & 12V / 500mA aux fan outputs
- Remote Sense, Remote On/Off, Power Good
- <100µA Leakage Current



- ALL MODELS FEATURE:
- UL 60950-1 / UL 62368-1 Approved
 - EN 55032 Class B conducted EMI
 - 3 Year Warranty (ITE Models)
 - 5 Year Warranty (Medical Models )

450 Watt TPP 450A-M

- 5.00 x 3.00 x 1.58" - Open Frame + Baseplate
- Single Output (12~53V_{OUT}) with 91~94% Efficiency
- -40°C to +85°C Operating (See Spec for Derating)
- 5V / 2A standby & 12V / 500mA aux fan outputs
- Remote Sense, Remote On/Off, Power Good
- <100µA Leakage Current



NEW!



480 Watt TXH 480

- 7.98 x 4.20 x 1.77" - Enclosed with Fan
- Single Output (12~48 V_{OUT})
- -20°C to +70°C Operating (Derate 2.5%/K>+50°C)
- Remote On/Off, Sense, DC OK and 5 VAUX
- 88~91% Efficiency



600 Watt TXH 600

- 8.74 x 4.13 x 1.73" - Enclosed with Fan
- Single Output (12~54 V_{OUT})
- -25°C to +70°C Operating (Derate 2.2%/K>+50°C)
- Remote On/Off, Remote Sense, DC OK and 5Vaux
- Includes IEC-C13 inlet, on/off switch & fuse
- Current share up to 3 units
- 90~93% Efficiency



750 Watt TXL 750

- 10.82 x 4.92 x 2.48" - Enclosed with Fan
- Single Output (24~48 V_{OUT})
- -20°C to +70°C Operating (Derate 2%/K>+50°C)
- Remote On/Off, Remote Sense, DC-OK and 12Vaux
- Current share up to 3 units
- 88~90% Efficiency



1000 Watt TXL 1000

- 11.61 x 5.00 x 1.60" - Enclosed with Fan
- Single Outputs (24~48 V_{OUT})
- -20°C to +70°C Operating / Derate 2.5%/K>+50°C
- Remote On/Off, Remote Sense, DC-OK and 5Vaux
- Current share up to 4 units
- 87~88% Efficiency



AC/DC POWER

Outdoor Power Supplies

6 - 120 Watts

ALL MODELS FEATURE:

- IP 67 rating
- UL60950-1 Approved
- Fully Encapsulated housing
- Universal AC input
- 3 year warranty

6 Watt TIW 06

- 1.98 x 1.98 x 0.93" - Wall / Flush-Box Mount
- Single 3.3~6 V_{OUT} with 75~80% Efficiency
- -25°C to +50°C Convection (No Derating)
- EN 50178, EN 60335-1, UL 1310 class 2
- Fully encapsulated plastic housing & IP67 rated



12 Watt TIW 12

- 1.98 x 1.98 x 0.93" - Wall / Flush-Box Mount
- Single 12~24 V_{OUT} with 75~80% Efficiency
- -25°C to +50°C Convection (No Derating)
- EN 50178, EN 60335-1, UL 1310 class 2
- Fully encapsulated plastic housing & IP67 rated



24 Watt TIW 24

- 2.20 x 2.20 x 1.26" - Wall / Flush-Box Mount
- Single 12~24 V_{OUT} with 83~85% Efficiency
- -25°C to +50°C Convection (No Derating)
- EN 50178, EN 60335-1, UL 1310 Class 2
- Fully encapsulated plastic housing & IP67 rated



120 Watt TEX 120

- 6.85 x 3.66 x 2.20" - IP67 / NEMA 4X Aluminum Case
- Single Output (12 & 24 V_{OUT})
- -40°C to +85°C Operating (Derate 2%/K>+60°)
- Connection via waterproof I/O plug-connectors
- UL HazLoc / ATEX Certified for Class I, Zone 2



AC/DC POWER SUPPLIES
Medical Approved
5 - 450 Watts

5 Watt **TMF 05**

- 1.62 x 1.07 x 0.75" - Encapsulated PCB Mount
- Single 5~24 V_{OUT} with 77~82% Efficiency
- -25°C to +70°C Convection
- Derate 4%/K>+55°C
- <100µA Leakage Current



10 Watt **TMF 10**

- 2.06 x 1.06 x 0.75" - Encapsulated PCB Mount
- Single 5~24 V_{OUT} with 79~84% Efficiency
- -25°C to +70°C Convection
- Derate 4%/K>+55°C
- <100µA Leakage Current



15 Watt **TPP 15A-D**

- 1.5 x 1.00 x 0.80" - Open-Frame PCB Mount
- Single 3.3~48 V_{OUT} with 83~88.5% Efficiency
- -40 ~ 85°C Convection (Derate 2.5%/K>+60°C)
- <75µA Leakage Current



NEW!



15 Watt **TPP 15A-J**

- 2.61 x 1.00 x 0.64" - Open-Frame
- Single 3.3~48 V_{OUT} with 83~88.5% Efficiency
- -40°C to +85°C Convection (Derate 2%/K>+60°C)
- <75µA Leakage Current



15 Watt **TPP 15-D**

- 1.65 x 1.14 x 0.82 - Encapsulated/PCB Mount
- Single 3.3~48 V_{OUT} with 84~88.5% Efficiency
- -40°C to +85°C Convection (Derate 3.7%/K>+70°C)
- <75µA Leakage Current



NEW!



15 Watt **TPP 15-J**

- 2.82 x 1.14 x 0.85" - Encapsulated / Chassis Mount
- Single 3.3~48 V_{OUT} with 84~88.5% Efficiency
- -40°C to +85°C Convection (Derate 3.7%/K>+70°C)
- <75µA Leakage Current



NEW!



20 Watt **TMF 20**

- 2.15 x 1.77 x 0.93" - Encapsulated PCB Mount
- Single 5~24 V_{OUT} with 78~84% Efficiency
- -25°C to +70°C Convection (Derate 3%/K>+50°C)
- <100µA Leakage Current



30 Watt **TMF 30**

- 2.52 x 1.79 x 0.93" - Encapsulated PCB Mount
- Single Output (5~24 V_{OUT} with 82~88% Efficiency)
- -25°C to +70°C Convection (Derate 3%/K>+50°C)
- <100µA Leakage Current

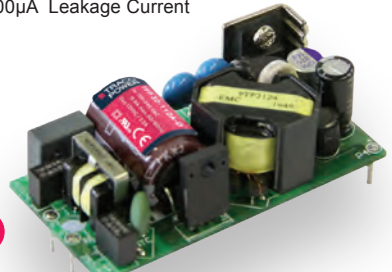


30 Watt **TPP 30A-D**

- 2.74 x 1.36 x 0.95" - Open-Frame
- Single 3.3~48 V_{OUT} with 84~91.5% Efficiency
- -40 ~ 85°C Convection (Derate 2.25%/K>+60°C)
- <100µA Leakage Current



NEW!



30 Watt **TPP 30A-J**

- 3.34 x 1.36 x 0.88" - Open Frame
- Single 3.3~48 V_{OUT} with 84~91.5% Efficiency
- -40°C to +85°C Convection (Derate 2.25%/K>+60°C)
- <100µA Leakage Current



30 Watt **TPP 30-D**

- 2.89 x 1.50 x 1.00" - Encapsulated/PCB Mount
- Single 3.3~48 V_{OUT} with 84~91.5% Efficiency
- -40°C to +85°C Convection (Derate 2.25%/K>+60°C)
- <100µA Leakage Current



NEW!



30 Watt **TPP 30-J**

- 3.95 x 1.50 x 1.00" - Encapsulated/Chassis Mount
- Single 3.3~48 V_{OUT} with 84~91.5% Efficiency
- -40°C to +85°C Convection (Derate 2.25%/K>+60°C)
- <100µA Leakage Current



NEW!



MEDICAL APPROVED MODELS FEATURE:

- IEC / EN / ES 6060101 3rd Edition Approved
- BF / 2XMOPP Compliant
- EN55011 Class B Emissions
- 5 Year Warranty

40 Watt TPP 40

- 3.53 x 2.38 x 1.31" - Enclosed - Singles
- 4.03 x 2.38 x 1.36" - Enclosed - Multi
- Single/Dual/Triple Outputs (5~24 V_{OUT})
- Singles: -40°C to +85°C (Derate 2.75%/K>+65°C)
- Multi: -40°C to +85°C (Derate 1.67%/K>+55°C)
- <75µA Leakage Current
- 86~92% Efficiency



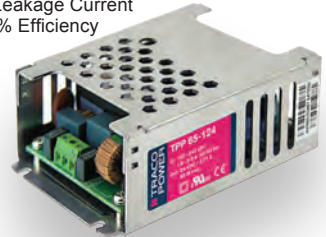
40 Watt TPP 40A-J

- 3.00 x 2.00 x 1.00" - Open Frame
- Single Output (5~48 V_{OUT}) with 90~92% Efficiency
- -40°C to +85°C Convection
- Derate 2.75%/K>+65°C
- <75µA Leakage Current



65 Watt TPP 65

- Single: 3.53 x 2.38 x 1.31" - Enclosed
- Multi: 4.03 x 2.38 x 1.36" - Enclosed
- Singles (5~24 V_{OUT}) / Multi Outputs (5~24 V_{OUT})
- -40°C to +85°C Convection
- - Singles Derate 2%/K>+55°C
- - Multi Derate 1.71%/K>+50°C
- <75µA Leakage Current
- 89~93.5% Efficiency



65 Watt TPP 65A

- 3.00 x 2.00 x 1.00" - Open Frame
- Single 5~48 V_{OUT} with 90~93% Efficiency
- -40°C to +85°C Convection (Derate 2%/K>+55°C)
- <75µA Leakage Current



100 Watt TPP 100

- 3.60 x 2.44 x 1.59" - Enclosed
- Single 12~48 V_{OUT} with 91~92% Efficiency
- -40°C to +80°C Convection (Derate 2.4%/K>+60°C)
- <75µA Leakage Current



100 Watt TPP 100A-J

- 3.00 x 2.00 x 1.61" - Open Frame
- Single Output 12~48 V_{OUT} with 91~92% Efficiency
- -25°C to +85°C Convection (Derate 2%/K>+55°C)
- <75µA Leakage Current



NEW!

150 Watt TPP 150

- 4.60 x 2.44 x 1.94" - Enclosed with Fan
- Single 12~48 V_{OUT} with 91~92% Efficiency
- -25°C to +80°C Operating (Derate 4%/K>+70°C)
- <100µA Leakage Current



150 Watt TPP 150A-J

- 4.00 x 2.00 x 1.16" - Open Frame
- Single 12~48 V_{OUT} with 91~92% Efficiency
- -20°C to +85°C Operating (10cfm for full load)
- see spec for derating
- <100µA Leakage Current



NEW!

180 Watt TPP 180A-J

- 3.00 x 2.00 x 1.18" - Open-Frame
- Single Output (12~53 V_{OUT})
- -40°C to +85°C Convection (See Spec for Derating)
- 90 ~92% Efficiency



NEW - UNDER DEVELOPMENT

300 Watt TPP 300A-J

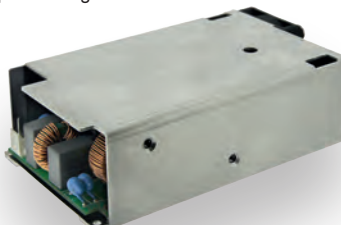
- 4.00 x 2.00 x 1.22" - Open-Frame
- Single 12~48 V_{OUT}
- Remote On/Off, 5VSB & 12VAUX
- -40°C to +85°C with derating
- 91~93% Efficiency



NEW - UNDER DEVELOPMENT

450 Watt TPP 450

- 5.83 x 3.15 x 1.60" - Enclosed with Fan
- Single 12~53V_{OUT} with 91~94% Efficiency
- -40°C to +80°C Operating (See Spec for Derating)
- 5V / 2A standby & 12V / 500mA aux fan outputs
- Remote Sense, Remote On/Off, Power Good
- <100µA Leakage Current



NEW!

450 Watt TPP 450A-M

- 5.00 x 3.00 x 1.58" - Open Frame
- Single Output 12~53V_{OUT} with 91~94% Efficiency
- -40°C to +85°C Operating (See Spec for Derating)
- 5V / 2A standby & 12V / 500mA aux fan outputs
- Remote Sense, Remote On/Off, Power Good
- <100µA Leakage Current



NEW!

AC/DC POWER SUPPLIES

Encapsulated / Chassis Mount

6 - 100 Watts

ALL MODELS FEATURE:

- UL 60950-1 / UL 62368-1 Approved
- EN 55032 Class B conducted EMI
- 3 Year Warranty (ITE Models)
- 5 Year Warranty (Medical Models ☺)

6 Watt

TIW 06

- 1.98 x 1.98 x 0.93" - Wall / Flush Box Mount
- Single 3.3~6 V_{OUT} with 75~80% Efficiency
- -25°C to +50°C Convection (No Derating)
- EN 50178, EN 60335-1, UL 1310 class 2
- Fully encapsulated plastic housing & IP67 rated



12 Watt

TIW 12

- 1.98 x 1.98 x 0.93" - Wall / Flush Box Mount
- Single 12~24 V_{OUT} with 80% Efficiency
- -25°C to +50°C Convection (No Derating)
- EN 50178, EN 60335-1, UL 1310 class 2
- Fully encapsulated plastic housing & IP67 rated



15 Watt

TMP 15C

- 3.78 x 2.13 x 0.92" - Chassis Mount + Terminal Strip
- Single 5~48 V_{OUT} with 75~79% Efficiency
- -25°C to +70°C Convection
- Derate 3.3%/K>+50°C to +65°C, then 5%/k
- UL508 Approval / Optional DIN Rail Mounting Clip
- 47~440 Hz Operation



15 Watt

TPP 15-J

- 2.82 x 1.14 x 0.82" - Encapsulated Chassis Mount
- Single 3.3~48 V_{OUT} with 84~88.5% Efficiency
- -40°C to +85°C Convection
- Derate 3.7%/K above +70°C
- EN 50178, EN 60335-1 Safety Approvals



NEW!

24 Watt

TIW 24

- 2.20 x 2.20 x 1.26" - Wall / Flush Box
- Single/Dual/Triple 3.3~48 V_{OUT} with 83~85% Efficiency
- -25°C to +50°C Convection (No Derating)
- EN 50178, EN 60335-1, UL 1310 Class 2
- Fully encapsulated plastic housing & IP67 rated



24 Watt

TMM 24C

- 3.78 x 2.13 x 0.92" - Encapsulated Chassis Mount
- Single / Dual 5~24 V_{OUT} with 77~85% Efficiency
- -40°C to +80°C Convection (Derate 5%/K>+65°C)
- ITE, Medical and UL508 Approvals
- Optional DIN Rail Clip



30 Watt

TPP 30-J

- 3.95 x 1.50 x 1.00" - Encapsulated Chassis Mount
- Single 3.3~48 V_{OUT} with 84~91.5% Efficiency
- -40°C to +85°C Convection (derating >60°C)
- EN 50178, EN 60335-1 Safety Approvals



NEW!

30 Watt

TMP 30C

- 4.41 x 2.51 x 1.01" - Encapsulated Chassis Mount
- Single/Dual/Triple 3.3~48 V_{OUT} with 78~80% Efficiency
- -25°C to +70°C Convection
- Derate 3.3%/K>+50°C to +65°C, then 5%/k
- UL508 Approval / Optional DIN Rail Mounting Clip
- 47~440 Hz Operation



40 Watt

TMM 40C

- 4.41 x 2.51 x 1.34" - Encapsulated Chassis Mount
- Single / Dual 5~24 V_{OUT} with 81~85% Efficiency
- -40°C to +80°C Convection
- Derate 3.75%/K>+60°C
- ITE, Medical and UL508 Approvals
- Optional DIN Rail Clip



60 Watt

TMM 60C

- 4.41 x 2.67 x 1.50" - Encapsulated Chassis Mount
- Single 5~48 V_{OUT} with 84~88% Efficiency
- -40°C to +75°C Convection
- Derate 3.75%/K>+60°C
- ITE, Medical and UL508 Approvals
- Optional DIN Rail Clip



60 Watt

TMP 60C

- 4.41 x 2.67 x 1.50" - Encapsulated Chassis Mount
- Single 5~48 V_{OUT} with 79~84% Efficiency
- -25°C to +70°C Convection
- Derate 3.3%/K>+50°C to +65°C, then 5%/k
- UL508 Approval / Optional DIN Rail Mounting Clip



100 Watt

TML 100C

- 5.60 x 2.48 x 1.46" - Encapsulated Chassis Mount
- Single 12~48 V_{OUT} with 90~93% Efficiency
- -25°C to +70°C Convection
- Derate 3.75%/K>+50°C
- Remote On/Off Control



AC/DC POWER SUPPLIES

Encapsulated / PCB Mount

2 - 60 Watts

ALL MODELS FEATURE:

- UL 60950-1 / UL 62368-1 Approved
- EN 55032 Class B conducted EMI
- 3 Year Warranty (ITE Models)
- 5 Year Warranty (Medical Models ☼)

2 Watt

TMSB 2

- 1.12 x 1.35 x 0.58" - Encapsulated PCB Mount
- Single & Dual 3.3~24 V_{OUT} with 69~76% Efficiency
- -30°C to +70°C / Derate 2%/K>+60°C
- Constant power, no current limit



3 Watt

TMPS 03

- 1.00 x 1.00 x 0.64" - Encapsulated PCB Mount
- Single Output 3.3~24 V_{OUT} with 70~78% Efficiency
- -25°C to +70°C (Derate 5%/K>+60°C)



4 Watt

TMLM 04

- 1.44 x 1.06 x 0.67" - Encapsulated PCB Mount
- Single & Dual 3.3~24 V_{OUT} with 67~74% Efficiency
- -25°C to +60°C Convection (Derate 3.75%/K>+50°C)



4 Watt

TMPM 04

- 1.44 x 1.06 x 0.67" - Encapsulated PCB Mount
- Single & Dual 3.3~24 V_{OUT} with 70~77% Efficiency
- -25°C to +60°C Convection (No Derating)
- 47~440Hz Operation



5 Watt

TMPS 05

- 1.00 x 1.00 x 0.64" - Encapsulated PCB Mount
- Single Output 3.3~48 V_{OUT} with 74~85% Efficiency
- -25°C to +70°C Convection (Derate 2.5%/K>+50°C)



5 Watt

TMLM 05

- 2.00 x 1.00 x 0.59" - Encapsulated PCB Mount
- Single 3.3~24 V_{OUT} with 68~77% Efficiency
- -25°C to +60°C Convection (Derate 3.75%/K>+50°C)



7 Watt

TMG 07

- 1.08 x 1.08 x 0.73" - Encapsulated PCB Mount
- Single 5~24 V_{OUT} with 77~80% Efficiency
- -25°C to +70°C Convection (See Spec for Derating)
- 4,242 VDC I/O Isolation



7 Watt

TMP 07

- 2.00 x 1.00 x 0.77" - Encapsulated PCB Mount
- Single Output 3.3~24 V_{OUT} with 70~78% Efficiency
- -25°C to +70°C Convection (See Spec for Derating)
- 47~440Hz Operation



10 Watt

TMLM 10

- 2.06 x 1.07 x 0.93" - Encapsulated PCB Mount
- Single Output 3.3~24 V_{OUT} with 74~82% Efficiency
- -25°C to +60°C Convection (Derate 3.75%/K>+50°C)



10 Watt

TMP 10

- 2.52 x 1.77 x 0.76" - Encapsulated PCB Mount
- Single & Dual 3.3~24 V_{OUT} with 70~76% Efficiency
- -25°C to +50°C Convection (no derating)
- 47~440Hz Operation



10 Watt

TMPM 10

- 2.06 x 1.07 x 0.93" - Encapsulated PCB Mount
- Single 3.3~24 V_{OUT} with 70~76% Efficiency
- -25°C to +70°C Convection (See Spec for Derating)
- 47~440Hz Operation



10 Watt

TMPS 10

- 1.50 x 1.00 x 0.62" - Encapsulated PCB Mount
- Single 3.3~24 V_{OUT} with 77~86% Efficiency
- -25°C to +70°C Convection (Derate 2.5%/K>+50°C)



NEW!



AC/DC POWER SUPPLIES

Encapsulated / PCB Mount

2 - 60 Watts

ALL MODELS FEATURE:

- UL 60950-1 / UL 62368-1 Approved
- EN 55032 Class B conducted EMI
- 3 Year Warranty (ITE Models)
- 5 Year Warranty (Medical Models)

15 Watt

TMP 15

- 2.91 x 2.13 x 0.77" - Encapsulated PCB Mount
- Single / Dual / Triple Outputs (5~48 V_{OUT})
- -25°C to +70°C Convection (See Spec for Derating)
- 72~79% Efficiency
- 47~440Hz Operation



15 Watt

TPP 15D

- 1.65 x 1.14 x 0.85" - Encapsulated PCB Mount
- Single 3.3~48 V_{OUT} with 84~88.5% Efficiency
- -40°C to +85°C Convection (Derate 3.7%/K>+70°C)
- EN 50178, EN 60335-1 Safety Approvals



NEW!



15 Watt

TMG 15

- 1.62 x 1.07 x 0.75" - Encapsulated PCB Mount
- Single Output 5~24 V_{OUT} with 80~85% Efficiency
- -40°C to +70°C Convection (See Spec for Derating)
- 4,242VDC I/O Isolation



20 Watt

TML 20

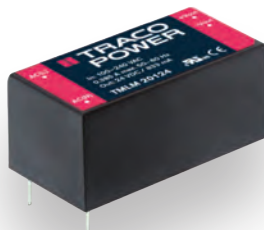
- 2.76 x 1.87 x 0.85" - Encapsulated PCB Mount
- Single / Dual / Triple Outputs (3.3~24 V_{OUT})
- -25°C to +70°C Convection (Derate 3.75%/K>+50°C)
- 75~84% Efficiency



20 Watt

TMLM 20

- 2.06 x 1.07 x 0.93" - Encapsulated PCB Mount
- Single 3.3~24 V_{OUT} with 74~83% Efficiency
- -25°C to +60°C Convection (Derate 2.5%/K>+40°C)



24 Watt

TMM 24

- 2.91 x 2.13 x 0.77" - Encapsulated PCB Mount
- Single / Dual 5~24 V_{OUT} with 77~85% Efficiency
- -40°C to +80°C Convection (Derate 5%/K>+65°C)



30 Watt

TPP 30D

- 2.89 x 1.50 x 1.00" - Encapsulated PCB Mount
- Single 3.3~48 V_{OUT} with 84~91.5% Efficiency
- -40°C to +85°C Convection (derating >60°C)



NEW!



30 Watt

TMG 30

- 2.52 x 1.77 x 0.93" - Encapsulated PCB Mount
- Single 3.3~24 V_{OUT} with 80~86% Efficiency
- -40°C to +70°C Convection (See Spec for Derating)
- 4,242 VDC I/O Isolation



30 Watt

TMP 30

- 3.50 x 2.50 x 0.85" - Encapsulated PCB Mount
- Single & Dual 5~48 V_{OUT} with 78~80% Efficiency
- -25°C to +70°C Convection (See Spec for Derating)
- 47~440Hz Operation



40 Watt

TML 40

- 3.52 x 2.52 x 0.98" - Encapsulated PCB Mount
- Single / Dual / Triple Outputs (3.3~24 V_{OUT})
- -40°C to +60°C Convection (Derate 3%/K>+60°C)
- 75~84% Efficiency
- 47~440Hz Operation



40 Watt

TMM 40

- 3.50 x 2.50 x 1.18" - Encapsulated PCB Mount
- Single / Dual 5~24 V_{OUT} with 81~85% Efficiency
- -40°C to +80°C Convection (Derate 3.75%/K>+60°C)



50 Watt

TMG 50

- 2.92 x 2.13 x 0.86" - Encapsulated PCB Mount
- Single Output 5~48 V_{OUT} with 86~90% Efficiency
- -40°C to +70°C Convection (See Spec for Derating)
- 4,242 VDC I/O-isolation



60 Watt

TMM 60

- 3.50 x 2.66 x 1.35" - Encapsulated PCB Mount
- Single & Dual 5~48 V_{OUT} with 84~88% Efficiency
- -40°C to +75°C Convection (Derate 3.75%/K>+60°C)



60 Watt

TMP 60

- 3.50 x 2.66 x 1.35" - Encapsulated PCB Mount
- Single Output 5~48 V_{OUT} with 79~84% Efficiency
- -25°C to +70°C Convection (See Spec for Derating)



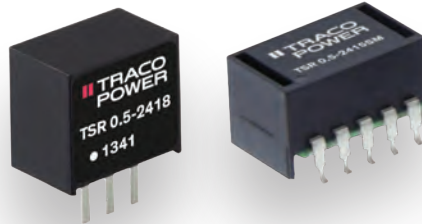
DC/DC POWER Non-Isolated Regulators 0.5 - 3 Amps Watts

- TSR = Positive / TSN= Negative In / Out
- High-efficiency operation
- Alternative to linear voltage regulators
- Excellent line / load regulation
- 3 year warranty

0.5 Amp

TSR 0.5(SM)

- 0.45 x 0.30 x 0.40" - SIP 3 Package
- 0.60 x 0.49 x 0.38" - SMD Package (suffix SM)
- +4.75~32 V_{IN} / +1.5~15V_{OUT} with 63~95% Efficiency
- -40°C to +90°C Operating (Derate 5%/K>+80°C)
- SIP 3 models are LM 78xx pin-compatible



0.6 Amp

TSR 0.6WI

- 0.47 x 0.34 x 0.53" - SIP 3 Package
- +9~72 V_{IN} / +3.3~24V_{OUT} with 63~97% Efficiency
- -40°C to +77°C Full Load Operating Temperature
- SIP 3 models are LM 78xx pin-compatible



NEW - UNDER DEVELOPMENT

1 Amp

TSN 1

- 0.65 x 0.46 x 0.30" - SIP-3 Package
- -7.0 ~ -32 V_{IN} / -5 ~ -15V_{OUT} with 84.5~93.5% Efficiency
- -40°C to +85°C Operating (Derate 3.3%/K>+70°C)
- LM 79xx pin-compatible



1 Amp

TSR 1(SM)

- 0.46 x 0.40 x 0.30" - SIP-3 Package
- 0.60 x 0.37 x 0.30" - SMD Package (suffix SM)
- +3.0~36 V_{IN} / +1.2~15V_{OUT} with 63~94% Efficiency
- -40°C to +90°C Operating (Derate 2.4%/K>+60°C)
- SIP 3 models are LM 78xx pin-compatible



1 Amp

TSR1 WI

- 0.47 x 0.34 x 0.69" - SIP 3 Package
- +9~72 V_{IN} / +3.3~24V_{OUT} with 63~97% Efficiency
- -40°C to +90°C Operating (Derate 5%/K>+80°C)
- SIP 3 models are LM 78xx pin-compatible



NEW - UNDER DEVELOPMENT

1 Amp

TSRN 1(SM)

- 0.46 x 0.40 x 0.30" - SIP-3 Package
- 0.60 x 0.37 x 0.30" - SMD Package
- +4.6~42 V_{IN} / +1.5~15V_{OUT} with 64~95% Efficiency
- -40°C to +85°C Operating (Derate 2.7%/K>+70°C)
- Suitable for positive to negative output circuit
- LM 78xx pin-compatible
- Wide V_{OUT} Trim Range



2 Amp

TSR 2

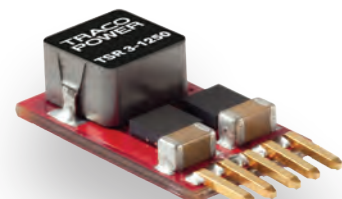
- 0.55 x 0.40 x 0.30" - SIP-3 Package
- +3.0 ~ 36 V_{IN} Ranges
- +1.2~15V_{OUT} with 75~94% Efficiency
- -40°C to +85°C Operating (See Spec for Derating)
- LM 78xx pin-compatible



3 Amp

TSR 3

- 0.65 x 0.41 x 0.24" - SIP-5 Package
- +2.5~30 V_{IN} Ranges
- +0.6~15V_{OUT} with 90~95% Efficiency
- -40°C to +85°C Operating (Derate 1.5%/K>+50°C)
- Negative or positive outputs
- Remote On/Off



DC/DC CONVERTERS

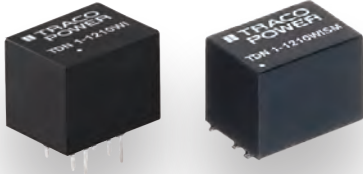
Isolated PCB Mount & SMD Converters

1- 240 Watts

1 Watt

TDN 1WI(SM)

- 0.52 x 0.36 x 0.40" - DIP or SMD Package
- 4:1 Input (4.5~18 | 9~36 | 18~75 | 18~75 VDC)
- Single / Dual 3.3~24V_{OUT} with 75~81% Efficiency
- -40°C to +90°C Operation (Full Load)
- 1,600 VDC Isolation
- Fully Regulated



1 Watt

TES1

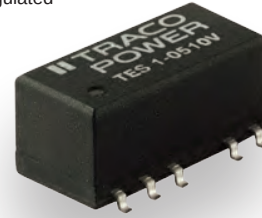
- Singles: 0.54 x 0.31 x 0.28" - SMD Package
- Duals: 0.64 x 0.31 x 0.28" - SMD Package
- ±10% Input (4.5~5.5 | 10.8~13.2 | 21.6~26.4 V_{IN})
- Single / Dual 3.3~15V_{OUT} with 73~80% Efficiency
- -40°C to +90°C Operation (Derate 3.3%/K>+75°C)
- 1,500 VDC Isolation
- Unregulated



1 Watt

TES 1V

- 0.64 x 0.31 x 0.31" - SMD Package
- ±10% Input (5 / 12 / 24 VDC)
- Single / Dual 3.3~15V_{OUT} with 72~81% Efficiency
- -40°C to +85°C Operation (Derate 4%/K>+75°C)
- 3,000 VDC Isolation
- Unregulated



1 Watt

TMA

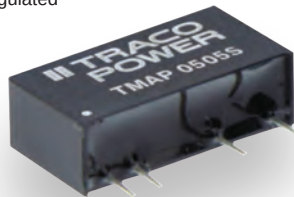
- 0.77 x 0.40 x 0.24" - SIP-7 Package
- ±10% Input (5 / 12 / 15 / 24 V_{IN})
- Single / Dual 5~15V_{OUT} with 71~81% Efficiency
- -40°C to +85°C Operation (Full Load)
- 1,000 VDC Isolation
- Unregulated



1 Watt

TMAP

- 0.77 x 0.40 x 0.28" - SIP-7 Package
- ±10% Input (5 / 12 / 24 VDC)
- Single / Dual 5~15V_{OUT} with 78~84% Efficiency
- -40°C to +85°C Operation (Full Load)
- 3,000 VDC Isolation
- Unregulated



1 Watt

TME

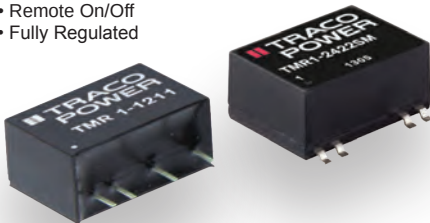
- 0.45 x 0.4 x 0.24" - SIP-4 Package
- ±10% Input (3.3 / 5 / 12 / 24 V_{IN})
- Single 3.3~15V_{OUT} with 70~80% Efficiency
- -40°C to +85°C Operation (Derate 4%/K>+75°C)
- 1,000 VDC Isolation
- Unregulated



1 Watt

TMR 1(SM)

- 0.67 x 0.40 x 0.30" - SIP-6 Package
- 0.74 x 0.54 x 0.33" - SMD Package (suffix SM)
- 2:1 Input (4.5~9 | 9~18 | 18~36 | 36~75 VDC)
- Single / Dual 5~15V_{OUT} with 76~82% Efficiency
- -40°C to +85°C Operation (Derate 7.2%/K >75°C)
- 1,500 VDC Isolation
- Remote On/Off
- Fully Regulated



1 Watt

TMV

- 0.77 x 0.40 x 0.24" - SIP-7 Package
- ±10% Input (5 / 12 / 24 VDC)
- Single / Dual 5~15V_{OUT} with 71~81% Efficiency
- -40°C to +90°C Operation (Derate 4%/K>+80°C)
- 3,000 VDC Isolation
- Unregulated



1 Watt

TMV HI

- 0.77 x 0.30 x 0.40" - SIP-7 Package
- ±10% Input (5 / 12 / 15 / 24 VDC)
- Single / Dual 3.3~15V_{OUT} with 70~80% Efficiency
- -40°C to +95°C Operation (Derate 6.7%/K >+85°C)
- 5,200 VDC Isolation
- Dedicated for IGBT applications
- Unregulated



1 Watt

TRA 1

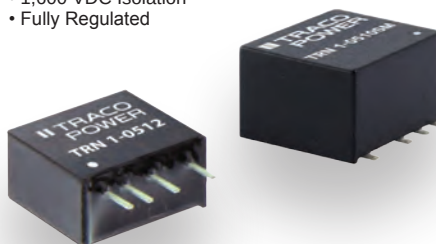
- 0.77 x 0.40 x 0.24" - SIP-6 Package
- ±10% Input (5 / 12 / 24 VDC)
- Single / Dual 5~15V_{OUT} with 84~88% Efficiency
- -40°C to +95°C Operation (Derate 5%/K >85°C)
- 1,000 VDC Isolation
- Semi-Regulated



1 Watt

TRN 1(SM)

- 0.47 x 0.32 x 0.43" - SIP 5 Package
- 0.47 x 0.31 x 0.45" - SMD Package (suffix SM)
- 2:1 Input (4.5~13.2 | 9~18 | 18~36 | 36~75 VDC)
- Single / Dual 3.3~24V_{OUT} with 77~83% Efficiency
- -40°C to +90°C Operation (Full Load)
- 1,600 VDC Isolation
- Fully Regulated



1 Watt

TRV 1

- 0.77 x 0.40 x 0.24" - SIP-4 Package
- ±10% Input (5 / 12 / 24 VDC)
- Single 5~15V_{OUT} with 84~88% Efficiency
- -40°C to +85°C Operation (Full Load)
- 3,000 VDC Isolation
- Semi Regulated



ALL MODELS FEATURE:

- UL 60950-1 / UL 62368-1
- 3 Year Warranty (ITE Models)
- 5 Year Warranty (Medical Models )

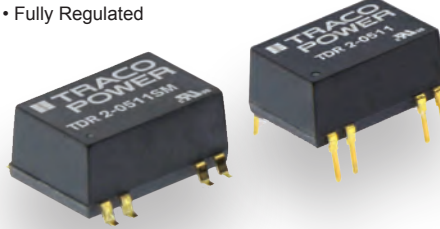
2 Watt TDL 2

- 0.55 x 0.55 x 0.31" - DIP-8 Package
- 2:1 Input (4.5~10 | 9~18 | 18~36 | 36~75 VDC)
- Single / Dual 3.3~15V_{OUT} with 79~87% Efficiency
- -40°C to +90°C Operation (Derate 4%/K >+70°C)
- 1,500 VDC Isolation
- Fully Regulated



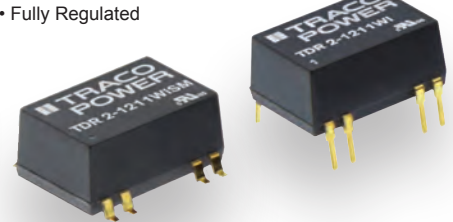
2 Watt TDR 2(SM)

- 0.74 x 0.50 x 0.35" - DIP-14 or SMD Package (suffix SM)
- 2:1 Input (4.5~9 | 9~18 | 18~36 | 36~75 VDC)
- Single / Dual 5~15V_{OUT} with 80~84% Efficiency
- -40°C to +85°C Operation (Full Load)
- 1,600 VDC Isolation
- Remote On/Off
- Fully Regulated



2 Watt TDR 2WI(SM)

- 0.74 x 0.50 x 0.35" - DIP-14 or SMD Package (suffix SM)
- 4:1 Input (4.5~18 | 9~36 | 18~75 VDC)
- Single / Dual 5~15V_{OUT} with 79~82% Efficiency
- -40°C to +85°C Operation (Full Load)
- 1,600 VDC Isolation
- Remote On/Off
- Fully Regulated



2 Watt TEC 2

- 0.86 x 0.36 x 0.44" - SIP-8 Package
- 2:1 Input (4.5~13.2 | 9~18 | 18~36 | 36~75 VDC)
- Single / Dual 3.3~24V_{OUT} with 76~85% Efficiency
- -40°C to +88°C Operation (Full Load)
- 1,600 VDC Isolation
- Remote On/Off
- Fully Regulated

NEW



2 Watt TEC 2WI

- 0.86 x 0.36 x 0.44" - SIP-8 Package
- 4:1 Input (4.5~18 | 9~36 | 18~75 VDC)
- Single / Dual 3.3~24V_{OUT} with 75~82% Efficiency
- -40°C to +84°C Operation (Full Load)
- 1,600 VDC Isolation
- Remote On/Off
- Fully Regulated

NEW



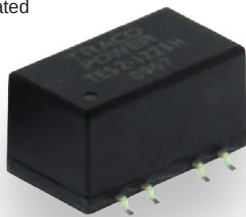
2 Watt TEL 2

- 0.94 x 0.54 x 0.30" - DIP-16 Package
- 2:1 Input (4.5~9 | 9~18 | 18~36 | 36~75 VDC)
- Single / Dual 3.3~15V_{OUT} with 70~81% Efficiency
- -40°C to +80°C Operation (Derate 2.9%/K >+65°C)
- 1,500 VDC Isolation
- Fully Regulated



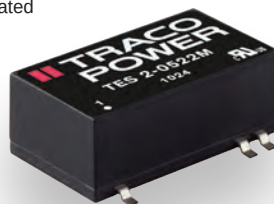
2 Watt TES 2H

- Singles: 0.54 x 0.37 x 0.35" - SMD Package
- Duals: 0.64 x 0.37 x 0.35" - SMD Package
- ±10% Input (5 / 12 / 24 VDC)
- Single / Dual 3.3~15V_{OUT} with 70~80% Efficiency
- -40°C to +85°C Operation (Derate 4%/K >+75°C)
- 1,500 VDC Isolation
- Unregulated



2 Watt TES 2M

- 0.94 x 0.54 x 0.35" - SMD Package
- ±10% Input (5 / 12 / 24 VDC)
- Single / Dual 5~15V_{OUT} with 66~75% Efficiency
- -25°C to +80°C Operation (Derate 2.5%/K >+60°C)
- 4,000 VAC Isolation (Reinforced Insulation)
- IEC/EN/ES 60601-1 2xMOOP Qualified
- Unregulated



2 Watt THI 2M

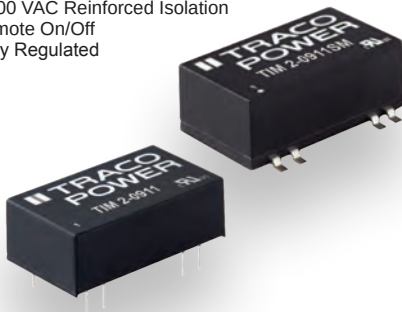
- 0.94 x 0.54 x 0.34" - DIP-16 Package
- ±10% Input (5 / 12 / 24 VDC)
- Single / Dual 5~15V_{OUT} with 66~75% Efficiency
- -40°C to +71°C Operation (Derate 2.5%/K >+60°C)
- 3,000 VAC Isolation (300 Vrms working voltage)
- Fully Regulated



2 Watt TIM 2(SM)

- 0.95 x 0.57 x 0.40" - DIP 16 or SMD Package
- 2:1 Input (4.5~12 | 9~18 | 18~36 | 36~75 VDC)
- Single / Dual 3.3~24 V_{OUT} with 74~83% Efficiency
- -40°C to +95°C Convection (See Spec for Derating)
- 5,000 VAC Reinforced Isolation
- Remote On/Off
- Fully Regulated

 NEW



2 Watt TMH

- 0.77 x 0.40 x 0.30" - SIP-7 Package
- ±10% Input (5 / 12 / 24 VDC)
- Single / Dual 5~15V_{OUT} with 76~83% Efficiency
- -40°C to +85°C Operation (Derate 3%/K >+70°C)
- 1,000 VDC Isolation
- Unregulated



2 Watt TMR 2

- 0.86 x 0.36 x 0.44" - SIP-8 Package
- 2:1 Input (4.5~9 | 9~18 | 18~36 | 36~75 VDC)
- Single / Dual 3.3~15V_{OUT} with 76~83% Efficiency
- -40°C to +85°C Operation (Full Load)
- 1,600 VDC Isolation
- Remote On/Off
- Fully Regulated



DC/DC CONVERTERS

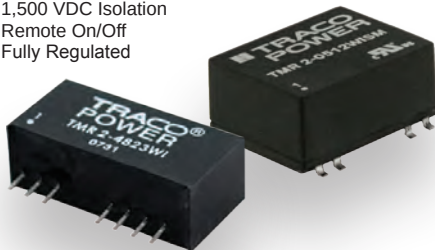
Isolated PCB Mount & SMD Converters

1- 240 Watts

2 Watt

TMR 2WI(SM)

- 1.02 x 0.36 x 0.49" - SIP-9 Package
- 0.75 x 0.59 x 0.35" - SMD Package (suffix SM)
- 4:1 Input (9~36 | 18~75 V_{IN})
- Single / Dual 3.3~15V_{OUT} with 70~80% Efficiency
- -40°C to +85°C Operation (Derate 2.9%/K>+65°C)
- 1,500 VDC Isolation
- Remote On/Off
- Fully Regulated



2 Watt

TMR 2WIN

- 0.86 x 0.44 x 0.37" - SIP-8 Package
- 4:1 Input (4.5~18 | 9~36 | 18~75 V_{IN})
- Single / Dual 3.3~15V_{OUT} with 74~82% Efficiency
- -40°C to +90°C Operation (Derate 3.3%/K>+75°C)
- 1,500 VDC Isolation
- Remote On/Off
- Economy Series
- Fully Regulated



2 Watt

TMV 2HI

- 0.77 x 0.30 x 0.40" - SIP-7 Package
- ±10% Input (5 / 12 / 15 / 24 V_{IN})
- Single 3.3~15V_{OUT} with 74~83% Efficiency
- -40°C to +80°C Operation (Full Load)
- 5,200 VDC Isolation
- Dedicated for IGBT Applications
- Unregulated



2 Watt

TRS 2

- 0.47 x 0.31 x 0.44" - SMD Package
- 2:1 Input (4.5~13.2 | 9~18 | 18~36 | 36~75 VDC)
- Single / Dual 3.3~24V_{OUT} with 76~84% Efficiency
- -40°C to +90°C Operation (Derate 3.3%/K>+75°C)
- 1,600 VDC Isolation
- Fully Regulated

NEW!



3 Watt

TDL 3

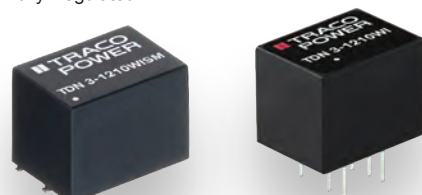
- 0.55 x 0.55 x 0.31" - DIP-8 Package
- 2:1 Input (4.5~10 | 9~18 | 18~36 | 36~75 VDC)
- Single / Dual 3.3~15V_{OUT} with 79~87% Efficiency
- -40°C to +95°C Operation (Derate 4%/K>+70°C)
- 1,500 VDC Isolation
- Fully Regulated



3 Watt

TDN 3WI(SM)

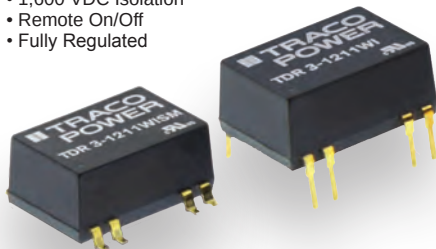
- 0.52 x 0.36 x 0.40" - DIP-8 or SMD Package
- 4:1 Input (4.5~18 | 9~36 | 18~75 VDC)
- Single / Dual 3.3~24V_{OUT} with 76~83% Efficiency
- -40°C to +85°C Operation (Derate 2.9%/K>+70°C)
- 1,600 VDC Isolation
- Fully Regulated



3 Watt

TDR 3 WI(SM)

- 0.74 x 0.50 x 0.35" - DIP-14 or SMD Package
- 4:1 Input (4.5~18 | 9~36 | 18~75 VDC)
- Single / Dual 5~15V_{OUT} with 80~83% Efficiency
- -40°C to +85°C Operation (Derate 3.3%/K>+70°C)
- 1,600 VDC Isolation
- Remote On/Off
- Fully Regulated



3 Watt

TEC 3

- 0.86 x 0.36 x 0.44" - SIP-8 Package
- 2:1 Input (4.5~13.2 | 9~18 | 18~36 | 36~75 VDC)
- Single / Dual 3.3~24V_{OUT} with 75~86% Efficiency
- -40°C to +90°C Operation (Derate 3.4%/K>+75°C)
- 1,600 VDC Isolation
- Remote On/Off
- Fully Regulated

NEW!



3 Watt

TEC 3WI

- 0.86 x 0.36 x 0.44" - SIP-8 Package
- 4:1 Input (4.5~18 | 9~36 | 18~75 VDC)
- Single / Dual 3.3~24V_{OUT} with 76~83% Efficiency
- -40°C to +90°C Operation (Derate 3.4%/K>+75°C)
- 1,600 VDC Isolation
- Remote On/Off
- Fully Regulated

NEW!



3 Watt

TEL 3

- 1.26 x 0.79 x 0.40" - DIP-24 Package
- 2:1 Input (4.5~9 | 9~18 | 10~30 | 18~36 | 36~75 VDC)
- Single / Dual 5~15V_{OUT} with 70~81% Efficiency
- -40°C to +85°C Operation (Derate 3.3%/K>+70°C)
- 1,500 VDC Isolation
- Fully Regulated



3 Watt

TEM 3N

- 1.26 x 0.80 x 0.40" - DIP-24 Package
- ±10% Input (5 / 12 / 24 VDC)
- Single / Dual 5~15V_{OUT} with 70~82% Efficiency
- -40°C to +85°C Operation (Derate 5%/K>+75°C)
- 1,500 VDC Isolation
- Low Noise (30mVp-p typ)
- Fully Regulated



3 Watt

TEN 3N

- 1.25 x 0.80 x 0.40" - DIP-24 Package
- 2:1 Input (4.5~9 | 9~18 | 18~36 | 36~72 VDC)
- Single / Dual 3.3~24V_{OUT} with 77~84% Efficiency
- -40°C to +85°C Operation (Derate 3.3%/K>+70°C)
- 1,500 VDC Isolation



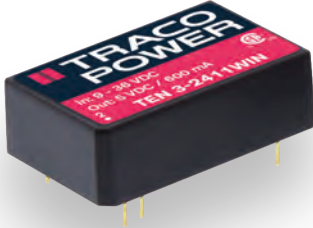
ALL MODELS FEATURE:

- UL 60950-1 / UL 62368-1
- 3 Year Warranty (ITE Models)
- 5 Year Warranty (Medical Models )

3 Watt

TEN 3WIN

- 1.25 x 0.80 x 0.40" - DIP-24 Package
- 4:1 Input (9~36 | 18~75 VDC)
- Single / Dual 3.3~24V_{OUT} with 77~84% Efficiency
- -40°C to +85°C Operation (Derate 3.3%/K>+70°C)
- 1,500 VDC Isolation (optional 3,000 VDC)
- Fully Regulated



3 Watt

THI 3

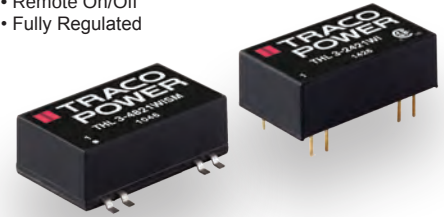
- 1.25 x 0.80 x 0.41" - DIP-24 Package
- ±10% Input (5 / 12 / 24 VDC)
- Single / Dual 5~15V_{OUT} with 60~64% Efficiency
- -40°C to +75°C Operation (Derate 2.78%/K>+60°C)
- Supplementary and reinforced insulation (2xMOOP)
- 4,000 VAC Isolation
- Fully Regulated



3 Watt

THL 3WI(SM)

- 0.94 x 0.54 x 0.31" - DIP-16 or SMD Package
- 4:1 Input (9~36 | 18~75 VDC)
- Single / Dual 3.3~24V_{OUT} with 75~80% Efficiency
- -40°C to +85°C Operation (See Spec for Derating)
- 1,500 VDC Isolation
- Remote On/Off
- Fully Regulated



3 Watt

THM 3 / THM 3WI

- 1.25 x 0.80 x 0.40" - DIP-24 Package
- THM 3 = 2:1 Input (4.5~9 | 9~18 | 18~36 | 36~75 VDC)
- THM 3WI = 4:1 Input (4.5~9 | 9~36 | 18~75 VDC)
- Single / Dual 3.3~24V_{OUT} with 81~87.5% Efficiency
- -40°C to +80°C Convection (Full Load)
- 5,000 VACrms Isolation (Reinforced Insulation)
- Fully Regulated



3 Watt

THP 3

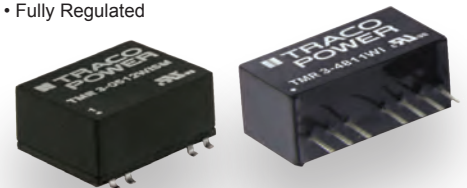
- 1.25 x 0.80 x 0.41" - DIP-24 Package
- 4:1 Input (9~40 | 18~80 | 36~160 VDC)
- Single / Dual 5~15V_{OUT} with 78~83% Efficiency
- -40°C to +85°C Operation (Derate 3.3%/K>+70°C)
- 3,000 VACrms Isolation (reinforced Insulation)
- Fully Regulated



3 Watt

TMR 3WI(SM)

- 0.86 x 0.44 x 0.36" - SIP-8 or SMD Package
- 4:1 Input (4.5~18 | 9~36 | 18~75 VDC)
- Single / Dual 3.3~15V_{OUT} with 74~82% Efficiency
- -40°C to +85°C Operation (Derate 3.3%/K>+70°C)
- 1,600 VDC ("H" for 3,000 VDC) Isolation
- Remote On/Off
- Fully Regulated



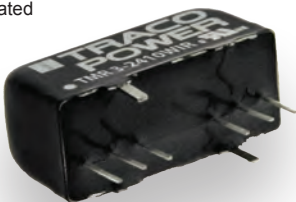
3 Watt

TMR 3WIR

- 0.86 x 0.44 x 0.38" - SIP-8 Package
- 4:1 Input (9~36 | 18~75 | 43~160 VDC)
- Single / Dual 3.3~24V_{OUT} with 75~83% Efficiency
- -40°C to +78°C Operation (Full Load)
- 3,000 VDC Isolation
- Remote On/Off
- Fully Regulated



NEW!



3 Watt

TMR 3(HI)

- 0.86 x 0.44 x 0.36" - SIP 8 Package
- 2:1 Input (4.5~9 | 9~18 | 18~36 | 36~75 VDC)
- Single / Dual 3.3~15V_{OUT} with 75~85% Efficiency
- -40°C to +85°C Operation (Derate 3.3%/K>+70°C)
- 1,600 VDC ("H" for 3,000 VDC) Isolation
- Remote On/Off
- Fully Regulated



3 Watt

TRA 3

- 0.77 x 0.40 x 0.30" - SIP-6 Package
- ±10% Input (5 / 12 / 24 VDC)
- Single 5~15V_{OUT} with 82~89% Efficiency
- -40°C to +85°C Operation (Full Load)
- 1,000 VDC Isolation
- Semi Regulated



3 Watt

TRI 3

- 1.25 x 0.80 x 0.41" - DIP-24 Package
- 2:1 Input (4.5~13.2 | 9~18 | 18~36 | 36~75 VDC)
- Single / Dual 5~24V_{OUT}
- 5,000 VAC Isolation (1,000V_{RMS} Working Voltage)
- EN 55032 Class A Filter
- Fully Regulated

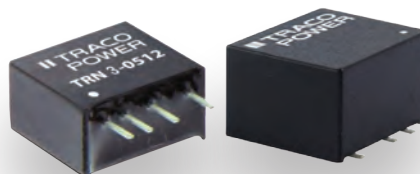


NEW - UNDER DEVELOPMENT

3 Watt

TRN 3(SM)

- 0.47 x 0.32 x 0.43" - SIP-5 Package
- 0.47 x 0.30 x 0.44" - SMD Package
- 2:1 Input (4.5~13.2 | 9~18 | 18~36 | 36~75 VDC)
- Single / Dual 3.3~48V_{OUT} with 75~84% Efficiency
- -40°C to +85°C Operation (Derate 2.5%/K>+65°C)
- 1,600 VDC Isolation
- Fully Regulated



3 Watt

TVN 3

- 0.86 x 0.44 x 0.38" - SIP-8 Package
- 2:1 Input (4.5~13.2 | 9~18 | 18~36 | 36~75 VDC)
- Single / Dual 3.3~15V_{OUT} with 74~85% Efficiency
- -40°C to +90°C Operation (Derate 3.3%/K>+75°C)
- Ultra-low noise / ripple (10mV)
- 1,600 VDC Isolation
- Fully Regulated



DC/DC CONVERTERS

Isolated PCB Mount & SMD Converters

1- 240 Watts

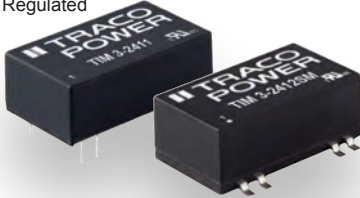
3.5 Watt

TIM 3.5(SM)

- 0.95 x 0.57 x 0.40" - DIP 16 or SMD Package
- 2:1 Input (4.5~12 | 9~18 | 18~36 | 36~75 VDC)
- Single / Dual 5~24 V_{OUT} with 77~83% Efficiency
- -40°C to +90°C Convection (See Spec for Derating)
- 5,000 VACrms Isolation (Reinforced Insulation)
- Remote On/Off
- Fully Regulated



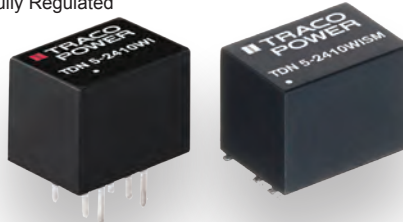
NEW!



5 Watt

TDN 5WI(SM)

- 0.52 x 0.36 x 0.39" - DIP-8 or SMD Package
- 4:1 Input (4.5~13.2 | 9~36 | 18~75 VDC)
- Single / Dual 3.3~24V_{OUT} with 76~84% Efficiency
- -40°C to +75°C Operation (Derate 1.8%/K>+50°C)
- 1,600VDC Isolation
- Remote On/Off
- Fully Regulated



5 Watt

TEL 5

- 1.25 x 0.80 x 0.40" - DIP-24 Package
- 2:1 Input (9~18 | 18~36 VDC)
- Single / Dual 3.3~15V_{OUT} with 77~86% Efficiency
- -40°C to +85°C Operation (Derate 3.3%/K>+70°C)
- 1,500 VDC Isolation
- Fully Regulated



5 Watt

TVN 5WI

- 1.26 x 0.79 x 0.40" - DIP-24 Package
- 4:1 Input (4.5~12 | 9~36 | 18~75 VDC)
- Single / Dual 3.3~24V_{OUT} with 79~89% Efficiency
- -40°C to +85°C Operation (Full Load)
- Ultra-Low Noise (10 mV)
- 1,600 VDC Isolation
- Remote On/Off
- Fully Regulated



6 Watt

TEN 6N

- 1.25 x 0.80 x 0.40" - DIP-24 Package
- 2:1 Input (9~18 | 18~36 | 36~75 VDC)
- Single / Dual 3.3~15V_{OUT} with 75~84% Efficiency
- -40°C to +85°C Operation (See Spec for Derating)
- 1,500 VDC Isolation
- Economy Series
- Fully Regulated



6 Watt

TEN 6WIN(-HI)

- 1.25 x 0.80 x 0.40" - DIP-24 Package
- 4:1 Input (9~36 | 18~75 VDC)
- Single / Dual 3.3~24V_{OUT} with 77~84% Efficiency
- -40°C to +85°C Operation (See Spec for Derating)
- 1,500 VDC Isolation, add "-HI" - for 3,000VDC Isolation
- Economy Series
- Fully Regulated



6 Watt

THM 6

- 1.25 x 0.80 x 0.40" - DIP-24 Package
- 2:1 Input (4.5~9 | 9~18 | 18~36 | 36~75 VDC)
- Single / Dual 3.3~24V_{OUT} with 81.5~89% Efficiency
- -40°C to +70°C Convection (Full Load)
- 5,000 VAC Isolation (Reinforced Insulation)
- Fully Regulated



6 Watt

THM 6WI

- 1.25 x 0.80 x 0.40" - DIP-24 Package
- 4:1 Input Ranges (4.5~9 | 9~36 | 18~75 VDC)
- Single / Dual 3.3~24V_{OUT} with 82.5~89% Efficiency
- -40°C to +70°C Convection (Full Load)
- 5,000 VAC Isolation (Reinforced Insulation)
- Fully Regulated



6 Watt

TMR 6

- 0.86 x 0.44 x 0.36" - SIP-8 Package
- 2:1 Input (4.5~9 | 9~18 | 18~36 | 36~75 VDC)
- Single / Dual 3.3~24V_{OUT} with 77~86% Efficiency
- -40°C to +85°C Operation (Derate 4%/K>+65°C)
- 1,600 VDC Isolation
- Remote On/Off
- Fully Regulated



6 Watt

TMR 6WI

- 0.86 x 0.44 x 0.36" - SIP-8 Package
- 4:1 Input (9~36 | 18~75 VDC)
- Single / Dual 3.3~24V_{OUT} with 81~88% Efficiency
- -40°C to +85°C Operation (Derate 3.45%/K>+71°C)
- 1,600 VDC Isolation
- Remote On/Off
- Fully Regulated



6 Watt

TMR 6WIR

- 0.86 x 0.44 x 0.38" - SIP-8 Package
- 4:1 Input (9~36 | 18~75 | 43~160 VDC)
- Single / Dual 3.3~24V_{OUT} with 81~88% Efficiency
- -40°C to +80°C Operation (Derate 2.5%/K>+60°C)
- 3,000 VDC Isolation
- Remote On/Off
- Fully Regulated



6 Watt

TRI 6

- 1.25 x 0.80 x 0.47" - DIP-24 Package
- 2:1 Input (9~18 | 18~36 | 36~75 VDC)
- Single / Dual 5~15V_{OUT}
- 5,000 VAC Isolation (1,000V_{RMS} Working Voltage)
- EN 55032 Class A Filter
- Fully Regulated



NEW - UNDER DEVELOPMENT

ALL MODELS FEATURE:

- UL 60950-1 / UL 62368-1
- 3 Year Warranty (ITE Models)
- 5 Year Warranty (Medical Models )

8 Watt TEL 8

- 0.95 x 0.55 x 0.33" - DIP-16 Package
- 2:1 Input (9~18 | 18~36 | 36~75 VDC)
- Single / Dual 3.3~24V_{OUT} with 78~86% Efficiency
- -40°C to +80°C Operation (Derate 5%/K>+70°C)
- 1,500 VDC Isolation
- Fully Regulated



8 Watt TEL 8WI

- 0.95 x 0.55 x 0.33" - DIP-16 Package
- 4:1 Input (9~36 | 18~75 VDC)
- Single / Dual 3.3~24V_{OUT} with 78~86% Efficiency
- -40°C to +80°C Operation (Derate 5%/K>+70°C)
- 1,500 VDC Isolation
- Fully Regulated



8 Watt TEN 8

- 1.26 x 0.80 x 0.40" - DIP-24 Package
- 2:1 Input (9~18 | 18~36 | 36~75 VDC)
- Single / Dual 3.3~15V_{OUT} with 80~87% Efficiency
- -40°C to +85°C Operation (Derate 3.3%/K>+70°C)
- 1,500 VDC Isolation
- Remote On/Off
- Fully Regulated



8 Watt TEN 8WI

- 1.26 x 0.80 x 0.40" - DIP-24 Package
- 4:1 Input (9~36 | 18~75 | 43~160 | VDC)
- Single / Dual 3.3~15V_{OUT} with 84~88% Efficiency
- -40°C to +85°C Operation (Derate 3%/K>+70°C)
- 1,500 VDC Isolation
- Remote On/Off
- Fully Regulated



9 Watt TMR 9

- 0.86 x 0.44 x 0.38" - SIP-8 Package
- 2:1 Input (9~18 | 18~36 | 36~75 VDC)
- Single / Dual 3.3~24V_{OUT} with 81~90% Efficiency
- -40°C to +85°C Operation (Derate 2.5%/K>+70°C)
- 1,600 VDC Isolation
- Remote On/Off
- Fully Regulated



9 Watt TMR 9WI

- 0.86 x 0.44 x 0.38" - SIP-8 Package
- 4:1 Input (9~36 | 18~75 VDC)
- Single / Dual 3.3~24V_{OUT} with 82~89% Efficiency
- -40°C to +85°C Operation (Derate 2.5%/K>+70°C)
- 1,600 VDC Isolation
- Remote On/Off
- Fully Regulated



10 Watt TEL 10

- 0.94 x 0.54 x 0.31" - DIP-16 Package
- 2:1 Input (9~18 | 18~36 | 36~75 VDC)
- Single / Dual 3.3~24V_{OUT}
- -40°C to +80°C Operation (see spec for derating)
- 1,500 VDC Isolation
- Fully Regulated

NEW!



NEW - UNDER DEVELOPMENT

10 Watt TEL 10WI

- 0.94 x 0.54 x 0.31" - DIP-16 Package
- 4:1 Input (9~36 | 18~75 VDC)
- Single / Dual 3.3~24V_{OUT} with 80~87% Efficiency
- -40°C to +80°C Operation (see spec for derating)
- 1,500 VDC Isolation
- Fully Regulated



10 Watt THD 10N

- 1.25 x 0.8 x 0.4" - DIP-24 Package
- 2:1 Input (9~18 | 18~36 | 36~75 VDC)
- Single / Dual 3.3~15V_{OUT} with 82~89% Efficiency
- -40°C to +71°C Operation (Derate 3%/K>+60°C)
- 1,500 VDC Isolation
- Fully Regulated



10 Watt THD 10WIN

- 1.25 x 0.8 x 0.4" - DIP-24 Package
- 4:1 Input (9~36 | 18~75 VDC)
- Single / Dual 3.3~24V_{OUT} with 85~87% Efficiency
- -40°C to +85°C Operation (Derate 3.3%/K>+70°C)
- 1,500 VDC Isolation
- Fully Regulated



10 Watt THL 10

- 1.00 x 1.00 x 0.40" - Standard 1x1" Package
- 2:1 Input (9~18 | 18~36 | 36~75 VDC)
- Single / Dual 3.3~15V_{OUT} with 82~89% Efficiency
- -40°C to +80°C Operation (Derate 2.5%/K>+60°C)
- 1,500 VDC Isolation
- Fully Regulated



10 Watt THL 10WI

- 1.00 x 1.00 x 0.40" - Standard 1x1" Package
- 4:1 Input (9~36 | 18~75 VDC)
- Single / Dual 3.3~24V_{OUT} with 84~87% Efficiency
- -40°C to +75°C Operation (Derate 2.5%/K>+60°C)
- 1,500 VDC Isolation
- Fully Regulated



DC/DC CONVERTERS

Isolated PCB Mount & SMD Converters

1- 240 Watts

10 Watt

THM 10

- 1.25 x 0.80 x 0.40" - DIP-24 Package
- 2:1 Input (4.5~9 | 9~18 | 18~36 | 36~75 VDC)
- Single / Dual 3.3~24V_{OUT} with 80~89% Efficiency
- -40°C to +50°C Convection (Full Load)
- 5,000 VAC Isolation (Reinforced Insulation)
- Fully Regulated



10 Watt

THM 10WI

- 1.25 x 0.80 x 0.40" - DIP-24 Package
- 4:1 Input Ranges (4.5~9 | 9~36 | 18~75 VDC)
- Single / Dual 3.3~24V_{OUT} with 80~89% Efficiency
- -40°C to +50°C Convection (Full Load)
- 5,000 VAC Isolation (Reinforced Insulation)
- Fully Regulated



10 Watt

THN 10WIR

- 1.00 x 1.00 x 0.40" - Standard 1x1" Package
- 4:1 Input (9~36 | 18~75 | 36~160 VDC)
- Single / Dual 3.3~24V_{OUT}
- -40°C to +105°C Operation (Derate > +85°C)
- Remote On/Off & V_{Trim} Functions
- 3,000 VDC Isolation
- Fully Regulated



NEW - UNDER DEVELOPMENT

10 Watt

TRI 10

- 1.25 x 0.80 x 0.47" - DIP-24 Package
- 2:1 Input (9~18 | 18~36 | 36~75 VDC)
- Single / Dual 3.3~24V_{OUT}
- 5,000 VAC Isolation (1,000V_{RMS} Working Voltage)
- -40°C to +95°C Operation (Derate > +75°C)
- Fully Regulated



NEW - UNDER DEVELOPMENT

12 Watt

THD 12

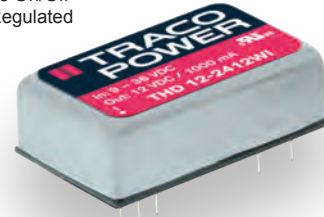
- 1.25 x 0.8 x 0.40" - DIP-24 Package
- 2:1 Input (9~18 | 18~36 | 36~75 VDC)
- Single / Dual 2.5~15V_{OUT} with 82~88% Efficiency
- -40°C to +85°C Operation (Derate 2.5%/K>+65°C)
- 1,500 VDC Isolation
- Remote On/Off
- Fully Regulated



12 Watt

THD 12WI

- 1.25 x 0.80 x 0.40" - DIP-24 Package
- 4:1 Input (9~36 | 18~75 VDC)
- Single / Dual 3.3~15V_{OUT} with 82~85% Efficiency
- -40°C to +85°C Operation (Derate 2.5%/K>+65°C)
- 1,500 VDC Isolation
- Remote On/Off
- Fully Regulated



15 Watt

THD 15N

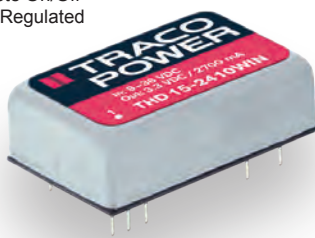
- 1.25 x 0.80 x 0.40" - DIP-24 Package
- 2:1 Input (9~18 | 18~36 | 36~75 VDC)
- Single / Dual 3.3~15V_{OUT} with 87~91% Efficiency
- -40°C to +85°C Operation (Derate 4%/K>+70°C)
- 1,500 VDC Isolation
- Remote On/Off
- Fully Regulated



15 Watt

THD 15WIN

- 1.25 x 0.80 x 0.40" - DIP-24 Package
- 4:1 Input (9~36 | 18~75 VDC)
- Single / Dual 3.3~15V_{OUT} with 86~90% Efficiency
- -40°C to +85°C Operation (Derate 3.3%/K>+70°C)
- 1,500 VDC Isolation
- Remote On/Off
- Fully Regulated



15 Watt

THL 15WI

- 1.00 x 1.00 x 0.40" - Standard 1x1" Package
- 4:1 Input (9~36 | 18~75 VDC)
- Single / Dual 3.3~24V_{OUT}
- -40°C to +80°C Operation (Derate > +70°C)
- 1,500 VDC Isolation
- Fully Regulated



NEW!



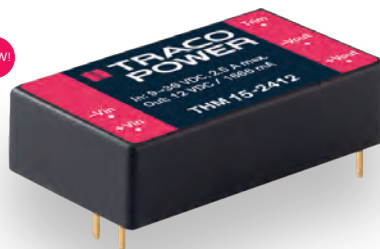
15 Watt

THM 15

- 1.60 x 1.00 x 0.40" - Through Hole PCB Mount
- 2:1 Input (9~18 | 18~36 | 36~75 VDC)
- Single / Dual 5~24V_{OUT} with 86~90% Efficiency
- -40°C to +85°C Convection (Derate 2.5%/K>+65°C)
- V_{Trim} Function (Singles) and Optional Remote On/Off
- 5,000 VAC Isolation (Reinforced Insulation)
- Fully Regulated



NEW!



15 Watt

THM 15WI

- 1.60 x 1.00 x 0.40" - Through Hole PCB Mount
- 4:1 Input Ranges (9~36 | 18~75 VDC)
- Single / Dual 5~24V_{OUT} with 86~89% Efficiency
- -40°C to +85°C Convection (Derate 2.5%/K>+65°C)
- V_{Trim} Function (Singles) and Optional Remote On/Off
- 5,000 VAC Isolation (Reinforced Insulation)
- Fully Regulated



15 Watt

THN 15N

- 1.00 x 1.00 x 0.39" - Standard 1x1" Package
- 2:1 Input (9~18 | 18~36 | 36~75 VDC)
- Single / Dual 3.3~24V_{OUT} with 86~91% Efficiency
- -40°C to +105°C Convection (Derate 2.9%/K>+70°C)
- Remote On/Off
- 1,600 VDC Isolation
- Fully Regulated



ALL MODELS FEATURE:

- UL 60950-1 / UL 62368-1
- 3 Year Warranty (ITE Models)
- 5 Year Warranty (Medical Models )

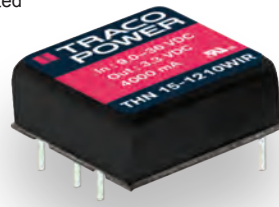
15 Watt THN 15WI

- 1.00 x 1.00 x 0.39" - Standard 1x1" Package
- 4:1 Input (9~36 | 18~75 VDC)
- Single / Dual 3.3~24V_{OUT} (85~91% Efficiency)
- -40°C to +85°C Operation (Derate 2.2%/K>+60°C)
- 1,600 VDC Isolation
- Remote On/Off & V_{Trim} Functions
- Fully Regulated



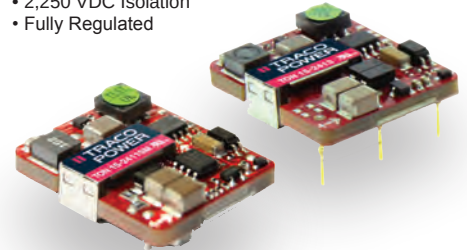
15 Watt THN 15WIR

- 1.00 x 1.00 x 0.39" - Standard 1x1" Package
- 4:1 Input (9~36 | 18~75 | 36~160 VDC)
- Single / Dual 3.3~24V_{OUT} with 86~91% Efficiency
- -40°C to +90°C Operation (Derate 3.3%/K>+75°C)
- Remote On/Off & V_{Trim} Functions
- 3,000 VDC Isolation
- Fully Regulated



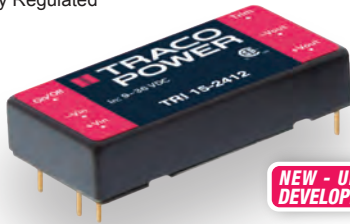
15 Watt TON15 & TON 15WI

- 1.10 x 0.94 x 0.34" - DIP or SMD Package
- 4:1 Input (9~36 | 18~75 VDC)
- Single 3.3~15V_{OUT} with 85~87% Efficiency
- -40°C to +85°C Operation (Derate 6.7%/K>+75°C)
- Remote On/Off & V_{Trim} Functions
- 2,250 VDC Isolation
- Fully Regulated



15 Watt TRI 15

- 2.00 x 1.00 x 0.47" - Standard 1x2" Package
- 2:1 Input (9~18 | 18~36 | 36~75 VDC)
- Single / Dual 3.3~24V_{OUT}
- 5,000 VAC Isolation (1,000V_{RMS} Working Voltage)
- -40°C to +95°C Operation (Derate > +75°C)
- Fully Regulated



NEW - UNDER DEVELOPMENT

20 Watt TEN 20

- 2.00 x 1.00 x 0.40" - Standard 1x2" Package
- 2:1 Input (9~18 | 18~36 | 36~75 VDC)
- Single / Dual 3~15V_{OUT} with 81~89% Efficiency
- -40°C to +85°C Operation (Derate 2.3%/K>+60°C)
- 1,500 VDC Isolation
- Remote On/Off
- Fully Regulated



20 Watt TEN 20WIN

- 2.00 x 1.00 x 0.40" - Standard 1x2" Package
- 4:1 Input (9~36 | 18~75 VDC)
- Single / Dual 3.3~15V_{OUT} with 85~89% Efficiency
- -40°C to +85°C Operation (Derate > +70°C)
- 1,500 VDC Isolation
- Remote On/Off & V_{Trim} Functions
- Fully Regulated



20 Watt TEN 20WIR

- 2.00 x 1.00 x 0.40" - Standard 1x2" Package
- 4:1 Input (9~36 | 18~75 | 43~160 VDC)
- Single / Dual 3.3~15V_{OUT} with 85~89% Efficiency
- -40°C to +85°C Operation (Derate 4.5%/K>+73°C)
- 2,250VDC Isolation
- Remote On/Off & V_{Trim} Functions
- Fully Regulated



20 Watt THL 20WI

- 1.00 x 1.00 x 0.40" - Standard 1x1" Package
- 4:1 Input (9~36 | 18~75 VDC)
- Single / Dual 3.3~24V_{OUT} with 87~89% Efficiency
- -40°C to +75°C Operation (See Spec for Derating)
- 1,500 VDC Isolation
- Remote On/Off & V_{Trim} Functions
- Fully Regulated



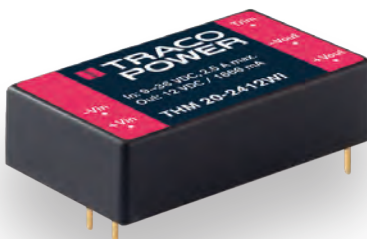
20 Watt THM 20

- 1.60 x 1.00 x 0.40" - Through Hole PCB Mount
- 2:1 Input (9~18 | 18~36 | 36~75 VDC)
- Single / Dual 5~24V_{OUT} with 86~90% Efficiency
- -40°C to +85°C Convection (Derate 2.5%/K>+55°C)
- V_{Trim} Function (Singles) and Optional Remote On/Off
- 5,000 VAC Isolation (Reinforced Insulation)
- Fully Regulated



20 Watt THM 20WI

- 1.60 x 1.00 x 0.40" - Through Hole PCB Mount
- 4:1 Input Ranges (9~36 | 18~75 VDC)
- Single / Dual 5~24V_{OUT} with 86~89.5% Efficiency
- -40°C to +80°C Convection (Derate 2%/K>+55°C)
- V_{Trim} Function (Singles) and Optional Remote On/Off
- 5,000 VAC Isolation (Reinforced Insulation)
- Fully Regulated



20 Watt THN 20

- 1.00 x 1.00 x 0.39" - Standard 1x1" Package
- 2:1 Input (9~18 | 18~36 | 36~75 VDC)
- Single / Dual 3.3~15V_{OUT} with 86~90% Efficiency
- -40°C to +75°C Operation (Derate 2.0%/K>+60°C)
- Remote On/Off & V_{Trim} Functions
- 1,500VDC Isolation
- Fully Regulated



20 Watt THN 20WI

- 1.00 x 1.00 x 0.39 Standard 1x1" Package
- 4:1 Input (9~36 | 18~75 VDC)
- Single / Dual 3.3~24V_{OUT} with 86~91% Efficiency
- -40°C to +75°C Operation (Derate 2.0%/K>+60°C)
- Remote On/Off & V_{Trim} Functions
- 1,500 VDC Isolation
- Fully Regulated



DC/DC CONVERTERS

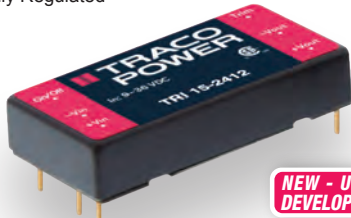
Isolated PCB Mount & SMD Converters

1- 240 Watts

20 Watt

TRI 20

- 2.00 x 1.00 x 0.47" - Standard 1x2" Package
- 2:1 Input (9~18 | 18~36 | 36~75 VDC)
- Single / Dual 3.3~24V_{OUT}
- 4,200 VAC Isolation (1,000V_{RMS} Working Voltage)
- -40°C to +95°C Operation (Derate > +65°C)
- Fully Regulated



NEW - UNDER DEVELOPMENT

25 Watt

THL 25

- 1.00 x 1.00 x 0.40" - Standard 1x1" Package
- 2:1 Input (9~18 | 18~36 | 36~75 VDC)
- Single / Dual 3.3~15V_{OUT} with 87~90% Efficiency
- -40°C to +80°C Operation (Derate 2.0%/K>+55°C)
- Remote On/Off & V_{Trim} Functions
- 1,500 VDC Isolation
- Fully Regulated



25 Watt

THL 25WI

- 1.00 x 1.00 x 0.40" - Standard 1x1" Package
- 4:1 Input (9~36 | 18~75 VDC)
- Single / Dual 3.3~15V_{OUT} with 87~90% Efficiency
- -40°C to +80°C Operation (Derate 2.0%/K>+55°C)
- 1,500 VDC Isolation
- Remote On/Off & V_{Trim} Functions
- Fully Regulated



30 Watt

TEN 30

- 2.00 x 1.00 x 0.40" - Standard 1x2" Package
- 2:1 Input (9~18 | 18~36 | 36~75 VDC)
- Single / Dual 3.3~15V_{OUT} with 85~91% Efficiency
- -40°C to +85°C Operation (Derate 3.3%/K>+60°C)
- 1,500 VDC Isolation
- Fully Regulated



30 Watt

TEN 30WIN

- 2.00 x 1.00 x 0.40" - Standard 1x2" Package
- 4:1 Input (9~36 | 18~75 VDC)
- Single / Dual / Triple 3.3~15V_{OUT}
- 86~91% Efficiency
- -40°C to +75°C Operation (Derate 3.5%/K>+60°C)
- Remote On/Off & V_{Trim} Functions
- 1,500VDC Isolation
- Fully Regulated



30 Watt

THM 30

- 2.00 x 1.00 x 0.40" - Standard 1x2" Package
- 2:1 Input (9~18 | 18~36 | 36~75 VDC)
- Single / Dual 5~24V_{OUT} with 86~90.5% Efficiency
- -40°C to +80°C Operation (Derate 2%/K>+55°C)
- V_{Trim} Function (Singles) and Optional Remote On/Off
- 5,000 VAC Isolation (Reinforced Insulation)
- Fully Regulated



30 Watt

THM 30WI

- 2.00 x 1.00 x 0.40" - Standard 1x2" Package
- 4:1 Input Ranges (9~36 | 18~75 VDC)
- Single / Dual 5~24V_{OUT} with 88~90% Efficiency
- -40°C to +80°C Operation (Derate 2%/K>+50°C)
- V_{Trim} Function (Singles) and Optional Remote On/Off
- 5,000 VAC Isolation (Reinforced Insulation)
- Fully Regulated



30 Watt

THN 30

- 1.00 x 1.00 x 0.39" - Standard 1x1" Package
- 2:1 Input (9~18 | 18~36 | 36~75 VDC)
- Single / Dual 3.3~24V_{OUT} with 86~92% Efficiency
- -40°C to +80°C Operation (Derate 2.5%/K>+60°C)
- Remote On/Off & V_{Trim} Functions
- 1,500 VDC Isolation
- Fully Regulated



30 Watt

THN 30 WI

- 1.00 x 1.00 x 0.39" - Standard 1x1" Package
- 4:1 Input (9~36 | 18~75 VDC)
- Single / Dual 3.3~24V_{OUT} with 86~92% Efficiency
- -40°C to +80°C Operation (Derate 2.5%/K>+60°C)
- Remote On/Off & V_{Trim} Functions
- 1,500 VDC Isolation
- Fully Regulated



40 Watt

TEN 40

- 2.00 x 2.00 x 0.40" - PCB Through Hole Mount
- 2:1 Input (9~18 | 18~36 | 36~75 VDC)
- Single / Dual / Triple 3.3~15V_{OUT}
- 86~90% Efficiency
- -40°C to +75°C Operation (See Spec for Derating)
- Remote Sense & V_{Trim} Functions
- 1,500 VDC Isolation
- Fully Regulated



40 Watt

TEN 40N

- 2.00 x 1.00 x 0.40" - Standard 1x2" Package
- 2:1 Input (9~18 | 18~36 | 36~75 VDC)
- Single / Dual 3.3~24V_{OUT} with 88~92% Efficiency
- -40°C to +80°C Operation (See Spec for Derating)
- Remote Sense & V_{Trim} Functions
- 1,500 VDC Isolation
- Fully Regulated



40 Watt

TEN 40WI

- 2.00 x 2.00 x 0.40" - PCB Through Hole Mount
- 4:1 Input (9~36 | 18~75 VDC)
- Single / Dual 3.3~15V_{OUT} with 86~88% Efficiency
- -40°C to +85°C Operation (See Spec for Derating)
- Remote Sense, Remote On/Off & V_{Trim} Functions
- 1,500 VDC Isolation
- Fully Regulated

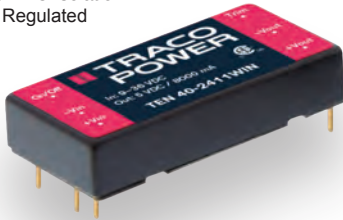


ALL MODELS FEATURE:

- UL 60950-1 / UL 62368-1
- 3 Year Warranty (ITE Models)
- 5 Year Warranty (Medical Models )

40 Watt TEN 40WIN

- 2.00 x 1.00 x 0.40" - Standard 1x2" Package
- 4:1 Input (9~36 | 18~75 VDC)
- Single / Dual 3.3~24V_{OUT} with 88~91% Efficiency
- -40°C to +75°C Operation (Derate 2.5%/K>+55°C)
- Remote On/Off & V_{Trim} Functions
- 1,500 VDC Isolation
- Fully Regulated



40 Watt TEN 40WIR

- 2.00 x 1.00 x 0.40" - Standard 1x2" Package
- 4:1 Input (9~36 | 18~75 | 43~160 VDC)
- Single / Dual 3.3~24V_{OUT} with 88~92% Efficiency
- -40°C to +85°C Operation (Derate 2.5%/K>+60°C)
- Remote On/Off & V_{Trim} Functions
- 1,600 VDC Isolation
- Fully Regulated



50 Watt TEN 50

- 2.00 x 1.00 x 0.40" - Standard 1x2" Package
- 2:1 Input (9~18 | 18~36 | 36~75 VDC)
- Single 3.3~24V_{OUT} with 89~92% Efficiency
- -40°C to +85°C Operation (Derate 1.1%/K>+50°C)
- Remote On/Off & V_{Trim} Functions
- 1,500 VDC Isolation
- Fully Regulated



50 Watt TEN 50WI

- 2.00 x 1.00 x 0.43" - Standard 1x2" Package
- 4:1 Input (9~36 | 18~75 VDC)
- Single 3.3~24V_{OUT} with 90~92% Efficiency
- -40°C to +80°C Operation (Derate 2.0%/K>+55°C)
- Remote On/Off & V_{Trim} Functions
- 1,500 VDC Isolation
- Fully Regulated



60 Watt TEN 60N

- 2.00 x 1.00 x 0.40" - Standard 1x2" Package
- 2:1 Input (9~18 | 18~36 | 36~75 VDC)
- Single / Dual 5~24V_{OUT} with 90~92% Efficiency
- -40°C to +85°C Operation (Derate 2.5%/K>+50°C)
- Remote On/Off & V_{Trim} Functions
- 1,500VDC Isolation
- Fully Regulated



60 Watt TEN 60WIN

- 2.00 x 1.00 x 0.40" - Standard 1x2" Package
- 4:1 Input (9~36 | 18~75 VDC)
- Single / Dual 5~24V_{OUT} with 91~92% Efficiency
- -40°C to +85°C Operation (Derate 2.5%/K>+50°C)
- Remote On/Off & V_{Trim} Functions
- 1,500VDC Isolation
- Fully Regulated



75 Watt TEP 75WI

- 2.40 x 2.28 x 0.50" - Half-Brick Package
- 4:1 Input (9~36 | 18~75 | 43~160 VDC)
- Single 5~48V_{OUT} with 87~91% Efficiency
- -40°C to +75°C Operation (See Spec for Derating)
- Remote On/Off, Sense & V_{Trim} Functions
- 2,250 VDC Isolation
- Fully Regulated



100 Watt TEP 100

- 2.40 x 2.28 x 0.50" - Half-Brick Package
- 2:1 Input (9~18 | 18~36 | 36~75 VDC)
- Single 3.3~48V_{OUT} with 90~93% Efficiency
- -40°C to +75°C Operation (See Spec for Derating)
- Remote On/Off, Sense & V_{Trim} Functions
- 2,250 VDC Isolation
- Fully Regulated



100 Watt TEP 100WIR

- 2.40 x 2.28 x 0.50" - Half-Brick Package
- 4:1 Input (9~36 | 16.5~75 | 43~160 VDC)
- Single 5~48V_{OUT} with 90~93% Efficiency
- -40°C to +75°C Operation (See Spec for Derating)
- Remote On/Off, Sense & V_{Trim} Functions
- 2,250 VDC Isolation
- Fully Regulated



150-196 Watt TEP 160

- 2.40 x 2.28 x 0.50" - Half-Brick Package
- 2:1 Input (16.5~36 | 33~75 VDC)
- Single 12~48V_{OUT} with 90~93% Efficiency
- -40°C to +75°C Operation (See Spec for Derating)
- Remote On/Off, Sense & V_{Trim} Functions
- 2,250 VDC Isolation
- Fully Regulated



142-182 Watt TEP 160WIR

- 2.40 x 2.28 x 0.50" - Half-Brick Package
- 4:1 Input (9~36 | 18~75 | 43~160 VDC)
- Single 12~48V_{OUT} with 90~91% Efficiency
- -40°C to +75°C Operation (See Spec for Derating)
- Remote On/Off, Sense & V_{Trim} Functions
- 2,250 VDC Isolation
- Fully Regulated



180-240 Watt TEP 200WIR

- 2.40 x 2.28 x 0.50" - (60.9 x 57.9 x 12.7mm)
- 4:1 Input (9~36 | 18~75 | 43~160 VDC)
- Single 12~48V_{OUT} with 89~91% Efficiency
- -40°C to +75°C Operation (See Spec for Derating)
- Remote On/Off, Sense & V_{Trim} Functions
- 2,250 VDC Isolation
- Fully Regulated



DC/DC CONVERTERS

Chassis-Mount Converters

6- 300 Watts

6 Watt

TMDC 06

- 2.09 x 1.34 x 1.04" - Encapsulated Chassis Mount
- 4:1 Input Ranges (9~36 | 18~75 VDC)
- Single 5~48V_{OUT}
- Screw Terminal Connections
- -40°C to +92.5°C with derating

NEW!



6 Watt

TMDC 06H

- 2.09 x 1.34 x 1.04" - Encapsulated Chassis Mount
- 2:1 Input Range (80-160 VDC)
- Single 5~48V_{OUT}
- 3,000 VAC Isolation @ 250VAC Working Voltage
- -40°C to +92.5°C with derating
- Screw Terminal Connections



NEW - UNDER DEVELOPMENT

10 Watt

TMDC 10

- 3.10 x 1.34 x 0.87" - Encapsulated Chassis Mount
- 4:1 Input Ranges (9~36 | 18~75 VDC)
- Single 5~48V_{OUT}
- Screw Terminal Connections
- -40°C to +92.5°C with derating

NEW!



10 Watt

TMDC 10H

- 3.10 x 1.34 x 0.87" - Encapsulated Chassis Mount
- 2:1 Input Ranges (80-160 VDC)
- Single 5~48V_{OUT}
- 3,000 VAC Isolation @ 250VAC Working Voltage
- -40°C to +92.5°C Derating > +70°C
- Screw Terminal Connections



NEW - UNDER DEVELOPMENT

20 Watt

TEQ 20WIR

- 4.06 x 2.25 x 1.03" - Enclosed
- 4:1 Input Ranges (9~36 | 18~75 | 43~160 VDC)
- Single 5~24V_{OUT} with 86~88% Efficiency
- -40°C to +93°C Ambient (Derate 5.8%/K>83°C)
- 2,250 VDC Isolation



20 Watt

TMDC 20

- 3.78 x 2.13 x 0.92" - Encapsulated Chassis Mount
- 4:1 Input Ranges (9~36 | 18~75 VDC)
- Single 5~48V_{OUT} with 89~91% Efficiency
- -40°C to +90°C Ambient (Derate 10%/K>85°C)
- Optional DIN Rail Mounting Kit
- EN55032 Class A Filter
- 2,500 VDC Isolation
- Remote On/Off



20 Watt

TMDC 20H

- 3.78 x 2.13 x 0.92" - Encapsulated Chassis Mount
- 2:1 Input Ranges (80-160 VDC)
- Single 5~48V_{OUT} with 89~91% Efficiency
- -40°C to +95°C Ambient (Derate +85°C)
- Optional DIN Rail Mounting Kit
- 2,500 VDC Isolation
- EN55032 Class A Filter
- Remote On/Off



NEW - UNDER DEVELOPMENT

40 Watt

TEQ 40WIR

- 4.06 x 2.25 x 1.03" - Enclosed + Heatsink
- 4:1 Input Ranges (9~36 | 18~75 | 43~160 VDC)
- Single 5~24V_{OUT} with 88~90% Efficiency
- -40°C to +92°C Ambient (Derate 5.9%/K>+83°C)
- 3,000 VDC Isolation



40 Watt

TMDC 40

- 4.41 x 2.51 x 1.01" - Encapsulated Chassis Mount
- 4:1 Input Ranges (9~36 | 18~75 VDC)
- Single 5~48V_{OUT} with 89~92% Efficiency
- -40°C to +85°C Ambient (Derate 4.5%/K>+73°C)
- Optional DIN Rail Mounting Kit
- 2,500 VDC Isolation
- EN55032 Class A Filter
- Remote On/Off



40 Watt

TMDC 40H

- 4.41 x 2.51 x 1.01" - Encapsulated Chassis Mount
- 2:1 Input Ranges (80-160 VDC)
- Single 5~48V_{OUT} with 89~92% Efficiency
- -40°C to +90°C Ambient (Derate > +75°C)
- Optional DIN Rail Mounting Kit
- 2,500 VDC Isolation
- EN55032 Class A Filter
- Remote On/Off



NEW - UNDER DEVELOPMENT

60 Watt

TMDC 60

- 4.41 x 2.67 x 1.5" - Encapsulated Chassis Mount
- 4:1 Input Ranges (9~36 | 18~75 VDC)
- Single 5~48V_{OUT} with 90~92% Efficiency
- -40°C to +85°C Ambient (Derate 3.3%/K>+70°C)
- Optional DIN Rail Mounting Kit
- 2,500 VDC Isolation
- Remote On/Off



60 Watt

TMDC 60H

- 4.41 x 2.67 x 1.5" - Encapsulated Chassis Mount
- 2:1 Input Ranges (80-160 VDC)
- Single 5~48V_{OUT} with 90~92% Efficiency
- -40°C to +90°C Ambient (Derate > +75°C)
- Optional DIN Rail Mounting Kit
- 2,500 VDC Isolation
- Remote On/Off



NEW - UNDER DEVELOPMENT

ALL MODELS FEATURE:

- UL 60950-1 / UL 62368-1
- 3 Year Warranty

75 Watt TEP 75WICM(F)

- 3.35 x 2.40 x 1.53" - Baseplate Cooled
- 4:1 Input Ranges (9~36 | 18~75 | 43~160 VDC)
- Single 5~48V_{OUT} with 87~91% Efficiency
- -40°C to +75°C Ambient (See Spec for Derating)
- Remote On/Off, Sense & V_{TRIM} Functions
- Optional Class B Filter (as shown) & DIN Rail Clip
- 2,250 VDC Isolation



100 Watt TEP 100CM(F)

- 3.35 x 2.40 x 1.53" - Baseplate Cooled
- 2:1 Input Ranges (9~18 | 18~36 | 36~75 VDC)
- Single 3.3~48V_{OUT} with 90~93% Efficiency
- -40°C to +75°C Ambient (See Spec for Derating)
- Remote On/Off, Sense & V_{TRIM} Functions
- Optional Class B Filter (as shown) & DIN Rail Clip
- 2,250 VDC Isolation



100 Watt TEP 100WIRCM(F)

- 3.35 x 2.40 x 1.53" - Baseplate Cooled
- 4:1 Input Ranges (9~36 | 18~75 | 43~160 VDC)
- Single 5~48V_{OUT} with 90~93% Efficiency
- -40°C to +75°C Ambient (See Spec for Derating)
- Remote On/Off, Sense & V_{TRIM} Functions
- Optional Class B Filter (as shown) & DIN Rail Clip
- 2,250 VDC Isolation



100 Watt TEQ 100WIR

- 4.06 x 3.50 x 3.45" - Sealed Metal Case
- 4:1 Input Ranges (10~36 | 19~75 | 43~160 VDC)
- Single 12~48V_{OUT} with ~90% Efficiency
- -40°C to +105°C Ambient (Derate > +85°C)
- Optional DIN Rail Clip with UL508 Approvals
- Remote On/Off & Remote Sense
- 2,250 VDC Isolation



150 Watt TEP 150WI(F)

- 3.86 x 2.56 x 1.60" - Sealed Metal Case
- 4:1 Input Ranges (9~36 | 18~75 | 43~160 VDC)
- Single 12~48V_{OUT} with 86~89% Efficiency
- -40°C to +75°C Ambient (See Spec for Derating)
- Constant current output for battery load applications
- Remote On/Off & V_{TRIM} Function
- 2,250 VDC Isolation
- Optional Class B EMI Filter (not shown)



150-196 Watt TEP 160CM(F)

- 3.35 x 2.40 x 1.53" - Baseplate Cooled
- 2:1 Input Ranges (16.5~36 | 33~75 VDC)
- Single 12~48V_{OUT} with 92~93% Efficiency
- -40°C to +75°C Ambient (See Spec for Derating)
- Remote On/Off, Sense & V_{TRIM} Functions
- Optional Class B Filter (as shown) & DIN Rail Clip
- 2,250VDC Isolation



142-182 Watt TEP 160WIRCM(F)

- 3.35 x 2.40 x 1.53" - Baseplate Cooled
- 4:1 Input Ranges (9~36 | 18~75 | 43~160 VDC)
- Single 12~48V_{OUT} with 90~91% Efficiency
- -40°C to +75°C Ambient (Derate 1.8%/K>+60°C)
- Remote On/Off, Sense & V_{TRIM} Functions
- Optional Class B Filter (as shown) & DIN Rail Clip
- 2,250 VDC Isolation



160 Watt TEQ 160WIR

- 4.06 x 3.50 x 3.45" - Sealed Metal Case
- 4:1 Input Ranges (10~36 | 19~75 | 43~160 VDC)
- Single 12~48V_{OUT} with ~90% Efficiency
- -40°C to +75°C Ambient (derate > +78°C)
- Optional DIN Rail Clip with UL508 Approvals
- Remote On/Off & Remote Sense
- 2,250 VDC Isolation



180-240 Watt TEP 200WIRCM(F)

- 3.35 x 2.40 x 1.53" - Baseplate Cooled
- 4:1 Input Ranges (9~36 | 18~75 | 43~160 VDC)
- Single 12~48V_{OUT} with 90~91% Efficiency
- -40°C to +75°C Ambient (See Spec for Derating)
- Remote On/Off, Sense & V_{TRIM} Functions
- 2,250 VDC Isolation
- Optional DIN Rail Clip



200 Watt TEQ 200WIR

- 4.06 x 3.50 x 3.45" - Sealed Metal Case
- 4:1 Input Ranges (10~36 | 19~75 | 43~160 VDC)
- Single 12~48V_{OUT} with ~90% Efficiency
- -40°C to +105°C Ambient (derate > +70°C)
- Optional DIN Rail Clip with UL508 Approvals
- Remote On/Off & Remote Sense
- 2,250 VDC Isolation



300 Watt TEQ 300WIR

- 6.00 x 4.00 x 1.52" - Sealed Metal Case
- 4:1 Input Ranges (18~75 | 43~160 VDC)
- Single 12~48V_{OUT} with 89~92% Efficiency
- -40°C to +80°C Ambient (Derate 2.2%/K>+60°C)
- Remote On/Off, Sense & Current Share Functions
- 3,000 VDC Isolation
- UL508 Listed





DC/DC CONVERTERS

Railway & Industrial

3- 300 Watts

3 Watt

TMR 3WIR

- 0.86 x 0.44 x 0.37" - SIP-8 Package
- 4:1 Input (9~36 | 18~75 | 43~160 VDC)
- Single / Dual 3.3~24V_{OUT} with 75~83% Efficiency
- -40°C to +90°C Ambient (Derate 4.5%/K>+78°C)
- 1,500 VDC (Optional 3,000 VDC) Isolation
- Remote On/Off



NEW!



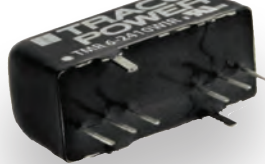
6 Watt

TMR 6WIR

- 0.86 x 0.44 x 0.38" - SIP-8 Package
- 4:1 Input (9~36 | 18~75 | 43~160 VDC)
- Single / Dual 3.3~24V_{OUT} with 81~87% Efficiency
- -40°C to +80°C Ambient (Derate 2.5%/K>+60°C)
- 1,500 VDC (Optional 3,000 VDC) Isolation
- Remote On/Off



NEW!



8 Watt

TEN 8WI

- 1.25 x 0.8 x 0.4" - DIP-24 Package
- 4:1 Input Ranges (9~36 | 18~75 | 43~160 VDC)
- SingleDual 3.3~15V_{OUT} with 81~89% Efficiency
- -40°C to +85°C Ambient (Derate 3%/K>+70°C)
- 1,500 VDC Isolation
- Remote On/Off



10 Watt

THN 10WIR

- 1.00 x 1.00 x 0.39" - Standard 1x1" Package
- 4:1 Input (9~36 | 18~75 | 36~160 VDC)
- Single / Dual 3.3~24V_{OUT}
- -40°C to +105°C Operation (Derate 2.5%/K>+85°C)
- Remote On/Off & V_{TRIM} Functions
- 3,000 VDC Isolation



NEW - UNDER DEVELOPMENT

15 Watt

THN 15WIR

- 1.00 x 1.00 x 0.39" - Standard 1x1" Package
- 4:1 Input Ranges (9~36 | 18~75 | 36~160 VDC)
- SingleDual 3.3~24V_{OUT} with 85~91% Efficiency
- -40°C to +90°C Ambient (Derate 3.3%/K>+75°C)
- Remote On/Off & V_{TRIM} Functions
- 3,000 VDC Isolation



20 Watt

TEN 20WIR

- 2.00 x 1.00 x 0.40" - Standard 1x2" Package
- 4:1 Input Ranges (9~36 | 18~75 | 43~160 VDC)
- SingleDual 3.3~15V_{OUT} with 85~89% Efficiency
- -40°C to +85°C Ambient (Derate 4.5%/K>+73°C)
- Remote On/Off, V_{TRIM} (±10 % min)
- 2,250VDC Isolation



20 Watt

TEQ 20WIR

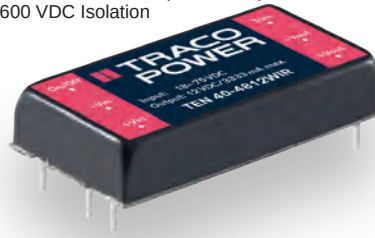
- 4.06 x 2.25 x 1.03" - Enclosed
- 4:1 Input Ranges (9~36 | 18~75 | 43~160 VDC)
- 5~24V_{OUT} with 87~88% Efficiency
- -40°C to +93°C Operation (Derate 5.8%/K>+83°C)
- 2,250VDC Isolation



40 Watt

TEN 40WIR

- 2.00 x 1.00 x 0.40" - Standard 1x2" Package
- 4:1 Input Ranges (9~36 | 18~75 | 43~160 VDC)
- SingleDual 3.3~24V_{OUT} with 89~92% Efficiency
- -40°C to +85°C Ambient (Derate 2.5%/K>+60°C)
- Remote On/Off, V_{TRIM} (±10 % min)
- 1,600 VDC Isolation



40 Watt

TEQ 40WIR

- 4.06 x 2.25 x 1.03" - Enclosed
- 4:1 Input Ranges (9~36 | 18~75 | 43~160 VDC)
- 5~24V_{OUT} with 88~91% Efficiency
- -40°C to +92°C Ambient (Derate 5%/K>+80°C)
- 3,000VDC for 43-160V_{IN}, others = 1,600VDC Isolation



75 Watt

TEP 75WI

- 2.40 x 2.28 x 0.50" - Half Brick
- 4:1 Input (9~36 | 18~75 | 43~160 VDC)
- Single 5~48V_{OUT} with 87~91% Efficiency
- -40°C to +75°C Ambient (See Spec for Derating)
- Remote On/Off, Sense & V_{TRIM} Functions
- 2,250 VDC Isolation



75 Watt

TEP 75WICM(F)

- 3.35 x 2.40 x 1.53" - Baseplate
- 4:1 Input Ranges (9~36 | 18~75 | 43~160 VDC)
- Single 5~48V_{OUT} with 87~91% Efficiency
- -40°C to +75°C Ambient (See Spec for Derating)
- Remote On/Off, Sense & V_{TRIM} Functions
- Optional Class B Filter (shown) & DIN Rail Clip
- 2,250 VDC Isolation



100 Watt

TEP 100WIR

- 2.40 x 2.28 x 0.50" - Half Brick
- 4:1 Input (9~36 | 16.5~75 | 43~160 VDC)
- Single 5~48V_{OUT} with 90~93% Efficiency
- -40°C to +75°C Ambient (See Spec for Derating)
- Remote On/Off, Sense & V_{TRIM} Functions
- 2,250 VDC Isolation



ALL MODELS FEATURE:

- EN 50155 Certified
- UL 60950-1 / UL 62368-1 Approved
- EN 61373 / MIL-STD-810F Shock & Vibration
- Conduction or Convection Cooled

100 Watt TEP 100WIRCM(F)

- 3.35 x 2.40 x 1.53" - Baseplate
- 4:1 Input Ranges (9~36 | 18~75 | 43~160 VDC)
- Single 5~48V_{OUT} with 90~93% Efficiency
- -40°C to +85°C Ambient (Derate > +65°C)
- Remote On/Off, Sense & V_{TRIM} Functions
- Optional Class B Filter (shown) & DIN Rail Clip
- 2,250 VDC Isolation



100 Watt TEQ 100WIR

- 4.06 x 3.50 x 3.45" - Sealed Metal Enclosure
- 4:1 Input Ranges (10~36 | 19~75 | 43~160 VDC)
- Single 12~48V_{OUT} with ~90% Efficiency
- -40°C to +105°C Ambient (Derate 5%/K>+85°C)
- Remote On/Off & Remote Sense
- 2,250 VDC Isolation
- Optional DIN Rail Clip
- UL508 Listed



150 Watt TEP 150WI(F)

- 3.86 x 2.56 x 1.60" - Sealed Metal Enclosure
- 4:1 Input Ranges (9~36 | 18~75 | 43~160 VDC)
- Single 12~48V_{OUT} with 86~89% Efficiency
- -40°C to +75°C Ambient (See Spec for Derating)
- Optional Class B Filter (not shown)
- 2,250 VDC Isolation
- Remote On/Off



142-182 Watt TEP 160WIR

- 2.40 x 2.28 x 0.50" - Half Brick
- 4:1 Input (9~36 | 18~75 | 43~160 VDC)
- Single 12~48V_{OUT} with 90~91% Efficiency
- -40°C to +75°C Ambient (See Spec for Derating)
- Remote On/Off, Sense & V_{TRIM} Functions
- 2,250 VDC Isolation



142-182 Watt TEP 160WIRCM(F)

- 3.35 x 2.40 x 1.53" - Baseplate
- 4:1 Input Ranges (9~36 | 18~75 | 43~160 VDC)
- Single 12~48V_{OUT} with 90~91% Efficiency
- -40°C to +75°C Ambient (Derate 1.8%/K>+60°C)
- Remote On/Off, Sense & V_{TRIM} Functions
- Optional Class B Filter (shown) & DIN Rail Clip
- 2,250 VDC Isolation



160 Watt TEQ 160WIR

- 4.00 x 3.50 x 3.45" - Sealed Metal Enclosure
- 4:1 Input Ranges (19~75 | 43~160 VDC)
- Single 12~48V_{OUT} with 89~90% Efficiency
- -40°C to +105°C Ambient (Derate 3.7%/K>+78°C)
- Remote On/Off & Sense Functions
- UL508 Listed & Optional DIN Rail Clip (TEQ-MK1)
- 2,250 VDC Isolation



180-240 Watt TEP 200WIR

- 2.40 x 2.28 x 0.50" - Half Brick
- 4:1 Input (9~36 | 18~75 | 43~160 VDC)
- Single 12~48V_{OUT} with 89~91% Efficiency
- -40°C to +75°C Ambient (See Spec for Derating)
- Remote On/Off, Sense & V_{TRIM} Functions
- 2,250 VDC Isolation
- Half Brick Package



180-240 Watt TEP 200WIRCMF

- 3.35 x 2.40 x 1.53" - Baseplate
- 4:1 Input Ranges (9~36 | 18~75 | 43~160 VDC)
- Single 5~3.3V_{OUT} with 90~91% Efficiency
- -40°C to +75°C Ambient (See Spec for Derating)
- Remote On/Off, Sense & V_{TRIM} Functions
- Optional DIN Rail Clip
- 2,250 VDC Isolation



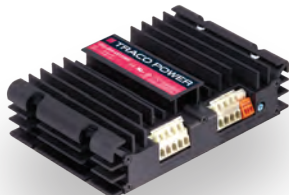
200 Watt TEQ 200WIR

- 4.06 x 3.45 x 3.50" - Sealed Metal Enclosure
- 4:1 Input Ranges (19~75 | 43~160 VDC)
- Single 12~48V_{OUT} with 89~90% Efficiency
- -40°C to +105°C Ambient (Derate 2.85%/K>+70°C)
- Remote On/Off & Sense Functions
- UL508 Listed & Optional DIN Rail Clip (TEQ-MK1)
- 2,250 VDC Isolation



300 Watt TEQ 300WIR

- 6.00 x 4.00 x 1.52" - Sealed Metal Enclosure
- 4:1 Input Ranges (18~75 | 43~160 VDC)
- Single 12~48V_{OUT} with 89~92% Efficiency
- -40°C to +80°C Ambient (Derate 2.2%/K>+60°C)
- Remote On/Off, Sense & Current Share Functions
- UL508 Listed & Optional DIN Rail Clip (TEQ-MK2)
- 3,000 VDC Isolation





DC/DC CONVERTERS

Medical / Reinforced Insulation

2 - 300 Watts

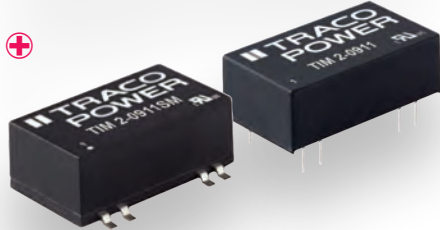
ALL MODELS FEATURE:

- IEC / EN / ES 60601-1 3rd Edition Approved
- BF / 2XMOPP Compliant
- ISO 14971 Risk Management File
- EMC to IEC 60601-1-2 4TH Edition

2 Watt

TIM 2(SM)

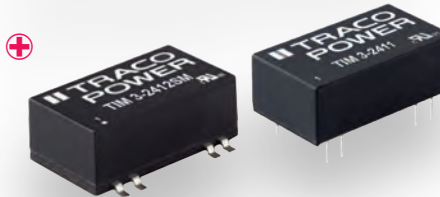
- 0.95 x 0.57 x 0.40" - DIP 16 or SMD Package
- 2:1 Input (4.5~9 | 9~18 | 18~36 | 36~75 VDC)
- Single / Dual 5~24 V_{OUT} with 74~82% Efficiency
- -40°C to +105°C Convection (See Spec for Derating)
- 5,000 VAC Isolation (Reinforced Insulation)
- Remote On/Off



3.5 Watt

TIM 3.5(SM)

- 0.95 x 0.57 x 0.40" - DIP 16 or SMD Package
- 2:1 Input (4.5~12 | 9~18 | 18~36 | 36~75 VDC)
- Single / Dual 5~24 V_{OUT} with 78~83% Efficiency
- -40°C to +105°C Convection (See Spec for Derating)
- 5,000 VAC Isolation (Reinforced Insulation)
- Optional Remote On/Off



10 Watt

THM 10

- 1.25 x 0.80 x 0.40" - 24-Pin DIP Package
- 2:1 Input (4.5~9 | 9~18 | 18~36 | 36~75 VDC)
- Single / Dual 3.3~24V_{OUT} with 80~89% Efficiency
- -40°C to +50°C Convection (Full Load)
- 5,000 VAC Isolation (Reinforced Insulation)



15 Watt

THM 15 WI

- 1.60 x 1.00 x 0.40" - Through Hole PCB Mount
- 4:1 Input (9~36 | 18~75 VDC)
- Single / Dual 5~24V_{OUT} with 87~89.5% Efficiency
- -40°C to +85°C Convection (Derate 2.86%/K>+65°C)
- V_{TRIM} Function (Singles) and Optional Remote On/Off
- 5,000 VAC Isolation (Reinforced Insulation)



3 Watt

THM 3

- 1.25 x 0.80 x 0.40" - 24-Pin DIP Package
- 2:1 Input (4.5~9 | 9~18 | 18~36 | 36~75 VDC)
- Single / Dual 3.3~24V_{OUT} with 81~87.5% Efficiency
- -40°C to +80°C Convection (Full Load)
- 5,000 VAC Isolation (Reinforced Insulation)



6 Watt

THM 6

- 1.25 x 0.80 x 0.40" - 24-Pin DIP Package
- 2:1 Input (4.5~9 | 9~18 | 18~36 | 36~75 VDC)
- Single / Dual 3.3~24V_{OUT} with 81.5~89% Efficiency
- -40°C to +70°C Convection (Full Load)
- 5,000 VAC Isolation (Reinforced Insulation)



10 Watt

THM 10WI

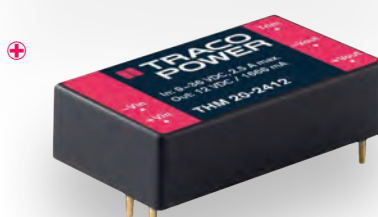
- 1.25 x 0.80 x 0.40" - 24-Pin DIP Package
- 4:1 Input (4.5~9 | 9~36 | 18~75 VDC)
- Single / Dual 3.3~24V_{OUT} with 80~89% Efficiency
- -40°C to +50°C Convection (Full Load)
- 5,000 VAC Isolation (Reinforced Insulation)



20 Watt

THM 20

- 1.60 x 1.00 x 0.40" - Through Hole PCB Mount
- 2:1 Input (9~18 | 18~36 | 36~75 VDC)
- Single / Dual 5~24V_{OUT} with 86~90% Efficiency
- -40°C to +80°C Convection (Derate 2.5%/K>+55°C)
- V_{TRIM} Function (Singles) and Optional Remote On/Off
- 5,000 VAC Isolation (Reinforced Insulation)



3 Watt

THM 3WI

- 1.25 x 0.80 x 0.40" - 24-Pin DIP Package
- 4:1 Input Ranges (4.5~9 | 9~36 | 18~75 VDC)
- Single / Dual 3.3~24V_{OUT} with 81~87% Efficiency
- -40°C to +80°C Convection (Full Load)
- 5,000 VAC Isolation (Reinforced Insulation)



6 Watt

THM 6WI

- 1.25 x 0.80 x 0.40" - 24-Pin DIP Package
- 4:1 Input Ranges (4.5~9 | 9~36 | 18~75 VDC)
- Single / Dual 3.3~24V_{OUT} with 82.5~89% Efficiency
- -40°C to +70°C Convection (Full Load)
- 5,000 VAC Isolation (Reinforced Insulation)



15 Watt

THM 15

- 1.60 x 1.00 x 0.40" - Through Hole PCB Mount
- 2:1 Input (9~18 | 18~36 | 36~75 VDC)
- Single / Dual 5~24V_{OUT} with 86~90% Efficiency
- -40°C to +85°C Convection (Derate 2.5%/K>+65°C)
- V_{TRIM} Function (Singles) and Optional Remote On/Off
- 5,000 VAC Isolation (Reinforced Insulation)



20 Watt

THM 20WI

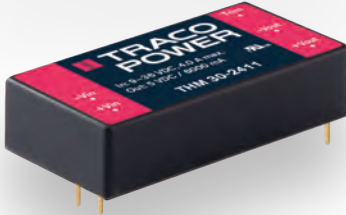
- 1.60 x 1.00 x 0.40" - Through Hole PCB Mount
- 4:1 Input (9~36 | 18~75 VDC)
- Single / Dual 5~24V_{OUT} with 86~89.5% Efficiency
- -40°C to +80°C Convection (Derate 2%/K>+55°C)
- V_{TRIM} Function (Singles) and Optional Remote On/Off
- 5,000 VAC Isolation (Reinforced Insulation)



30 Watt

THM 30

- 2.00 x 1.00 x 0.40" - Standard 1x2" Package
- 2:1 Input (9~18 | 18~36 | 36~75 VDC)
- Single / Dual 5~24V_{OUT} with 86~90.5% Efficiency
- -40°C to +80°C Operation (Derate 2%/K>+55°C)
- V_{trim} Function (Singles) and Optional Remote On/Off
- 5,000 VAC Isolation (Reinforced Insulation)



30 Watt

THM 30WI

- 2.00 x 1.00 x 0.40" - Standard 1x2" Package
- 4:1 Input (9~36 | 18~75 VDC)
- Single / Dual 5~24V_{OUT} with 88.5~90% Efficiency
- -40°C to +80°C Convection (Derate 2%/K>+55°C)
- V_{trim} Function (Singles) and Optional Remote On/Off
- 5,000 VAC Isolation (Reinforced Insulation)



DIN-RAIL POWER

Status & Control Modules

Solutions to further upgrade TRACO POWER's line of DIN Rail power supplies. We offer function modules for battery management / Charging, Buffering, Powersharing and Redundancy.

TSPC 240UPS

240 WATT BATTERY MANAGEMENT SYSTEM

- 4.72 x 4.49 x 3.94" - (120 x 114 x 100mm)
- Selectable 85~132 / 187~264 VAC Input Ranges
- 24V_{OUT} (88~92% Efficiency)
- -25°C to +70°C Convection (Derate 2.5%/K>+60°C)
- Input / Output / Battery Alarm Outputs



TSPC-BCMU360

REDUNDANCY & BATTERY CONTROL

- 4.45 x 1.33 x 2.13" - (113 x 110 x 54mm)
- 2 x 360 W for identical 24 VDC or 48 VDC sources
- Redundant Input Sources / Max 360W Output
- Input / Output / Battery Alarm Outputs



TSP-BCM

BATTERY CONTROL MODULES

- 12/24/48V | 180~600 Watt Modules
- Input / Output / Battery Alarm Outputs
- Remote On/Off of P/S & Battery



TSP-BFM

DIP/BROWNOUT PROTECTION

- Capacitor bank for energy storage
- Maintenance free, long life at low temperature.
- Hold-up-time 200ms/25A through 4s/1.2A max.
- Output 24 to 28 VDC, 600 W max.
- Active ready and inhibit signals



TSP-REM

CURRENT SHARE / ALARMS

- 360 ~ 600 Watt Modules (24~27VDC)
- Operation with true current sharing
- Alarm outputs and redundancy OK signal
- Hot swappable inputs





DIN RAIL POWER

Ruggedized / Harsh Environments

50 - 960 Watts

50 Watt

TSPC 050

- 3.56 x 1.45 x 4.33" - Rugged Metal Enclosure
- 12 & 24V_{OUT} with 85~93% Efficiency
- -25°C to 70°C Convection (Derate 2.5%/K>+60°C)
- Power Boost up to 120% (5 seconds)
- Power Good Signal



80 Watt

TSPC 080

- 4.33 x 1.57 x 4.33" - Rugged Metal Enclosure
- 12 & 24V_{OUT} with 85~93% Efficiency
- -25°C to 70°C Convection (Derate 2.5%/K>+60°C)
- Power Boost up to 120% (5 seconds)
- Power Good Signal



80 Watt

TIB 080EX

- 3.88 x 1.26 x 4.50" - Rugged Metal Enclosure
- 12 / 24 / 48V_{OUT} +15% Adjust with 88-90% Efficiency
- -40°C to +70°C Operation (Derate 2%/K>+60°C)
- 150% Peak Load for 4 Seconds
- Power-back immunity
- 5 year warranty



NEW!



70-90 Watt

TSP 070/090-EX

- 4.33 x 4.33 x 1.38" - Rugged Metal Enclosure
- 12 & 24 & 48V_{OUT} with 87% Efficiency
- -25°C to 70°C Convection (See Spec for Derating)
- Remote On/Off & Power Good
- +18% V_{OUT} Adjust Range



120 Watt

TIB 120-EX

- 4.89 x 1.42 x 4.50" - Rugged Metal Enclosure
- 12 / 24 / 48V_{OUT} +15% Adjust with 88-90% Efficiency
- -40°C to +70°C Operation (Derate 2%/K>+60°C)
- 150% Peak Load for 4 Seconds
- Power-back immunity
- 5 year warranty



NEW!



120 Watt

TSPC 120

- 4.33 x 1.81 x 4.33" - Rugged Metal Enclosure
- 24-28 / 48V-56V_{OUT} +with 85~93% Efficiency
- -25°C to 70°C Convection (Derate 2.5%/K>+60°C)
- Power Boost up to 120% (5 seconds)
- Power Good Signal



140-180 Watt

TSP 140/180-EX

- 4.33 x 4.33 x 2.13" - Rugged Metal Enclosure
- 12 & 24 & 48V_{OUT} with 87% Efficiency
- -25°C to 70°C Convection (See Spec for Derating)
- Remote On/Off & Power Good
- +18% V_{OUT} Adjust Range



180 Watt

TSP 180WR

- 4.33 x 4.33 x 2.13" - Rugged Metal Enclosure
- 85~132 / 187~264 / 323~550 VAC Input
- 24V_{OUT} with Efficiency (adjustable up to 28VDC)
- -25°C to 70°C Convection (See Spec for Derating)
- Remote On/Off & Power Good Signal



240 Watt

TIB 240EX

- 4.89 x 1.89 x 4.50" - Rugged Metal Enclosure
- 24 / 48V_{OUT} +15% Adjust with 95% Efficiency
- -25°C to +70°C Operation (Derate 2%/K>+60°C)
- 150% Peak Load for 4 Seconds
- Power-back immunity
- 5 year warranty



NEW!



240 Watt

TSP 240-3P

- 4.33 x 2.13 x 4.33" - Rugged Metal Enclosure
- 3-Phase Input (320~440 VAC / 400~550 VAC)
- 24V_{OUT} with 92% Efficiency
- -25°C to 70°C Convection (Derate 2.5%/K>+60°C)
- Power Boost up to 200% (5 seconds)
- Power Good Signal



240 Watt

TSPC-240

- 4.33 x 2.36 x 4.33" - Rugged Metal Enclosure
- 24 & 48V_{OUT} with 85~93% Efficiency
- -25°C to 70°C Convection (Derate 2.5%/K>+60°C)
- Power Boost up to 120% (5 seconds)
- Power Good Signal



240 Watt

TSPC 240UPS

- 4.72 x 4.49 x 3.94" - Rugged Metal Enclosure
- Integrated Battery Management System
- Single 24V_{OUT} at up to 12A (88~92% Efficiency)
- -25°C to +70°C Convection (Derate 2.5%/K>+60°C)
- Input / Output / Battery Alarm Outputs



ALL MODELS FEATURE:

- UL 508 Listed
- ATEX II3G
- Rugged Enclosure Systems
- EN 61373 / MIL-STD-810F Shock & Vibration

360 Watt

TSP 360-EX

- 4.92 x 4.92 x 3.15" - Rugged Metal Enclosure
- 24 & 48V_{OUT} with 87% Efficiency (+18% V_{ADJ} Range)
- -25°C to 70°C Convection (See Spec for Derating)
- EN60204 / EN60079 / Optional ATEX Compliance
- Remote On/Off & Power Good



360 Watt

TSP 360-WR

- 4.92 x 4.92 x 3.15" - Rugged Metal Enclosure
- 85-132 / 187-264 / 323-550 VAC Input
- 24V_{OUT} with 88% Efficiency (V_{ADJ} up to 28VDC)
- -25°C to 70°C Convection (See Spec for Derating)
- Remote On/Off & Power Good Signal



480 Watt

TIB 480EX

- 4.89 x 3.23 x 4.50" - Rugged Metal Enclosure
- 24 / 48V_{OUT} +15% Adjust with 95% Efficiency
- -25°C to +70°C Operation (Derate 2%/K>+60°C)
- 150% Peak Load for 4 Seconds
- Power-back immunity
- 5 year warranty



NEW!



480 Watt

TSP 480-3P

- 4.92 x 3.15 x 4.92" - Rugged Metal Enclosure
- 3-Phase Input (320-440 VAC / 400-550 VAC)
- 24V_{OUT} with 92% Efficiency
- -25°C to 70°C Convection (Derate 2.5%/K>+60°C)
- Power Boost up to 200% (5 seconds)
- EN60204 / 50178 / 61558-2-16 and ATEX Compliant
- Power Good Signal



480 Watt

TSPC 480

- 4.33 x 5.91 x 4.53" - Rugged Metal Enclosure
- 24 & 48V_{OUT} with 85-93% Efficiency
- -25°C to 70°C Convection (Derate 2.5%/K>+60°C)
- Power Boost up to 120% (5 seconds)
- EN60204 / 50178 / 61558-2-16 and ATEX Compliant
- Power Good Signal



600 Watt

TSP 600-EX

- 4.92 x 4.92 x 6.50" - Rugged Metal Enclosure
- 24 & 36 & 48V_{OUT} with 87% Efficiency
- -25°C to 70°C Convection (See Spec for Derating)
- Remote On/Off & Power Good
- +18% V_{ADJ} Range



600 Watt

TSP 600-WR

- 4.92 x 4.92 x 7.48" - Rugged Metal Enclosure
- 85-132 / 187-264 / 323-550 VAC Input
- 24V_{OUT} with 88% Efficiency (V_{ADJ} up to 28VDC)
- -25°C to +70°C Convection (See Spec for Derating)
- Remote On/Off & Power Good Signal



960 Watt

TSP 960-3P

- 4.92 x 6.50 x 4.92" - Rugged Metal Enclosure
- 3-Phase Input (320-440 VAC / 400-550 VAC)
- 24V_{OUT} with 92% Efficiency
- -25°C to +70°C Convection (Derate 2.5%/K>+60°C)
- Power Boost up to 200% (5 seconds)
- Power Good Signal





6 Watt

TBLC 06

- 2.34 x 0.71 x 3.52" - Plastic Enclosure
- 5 | 12 | 24V_{OUT} with 74~81% Efficiency
- -25°C to +70°C Operation (Derate 2.5%/K> +55°C)



15 Watt

TBL 015

- 1.04 x 3.52 x 2.34" - Plastic Enclosure
- 5 | 12 | 24V_{OUT} with 73~81% Efficiency
- -25°C to +70°C Operation (Derate 2.5%/K>+60°C)
- 5~5.2 / 12~16 / 24~28VDC Adjustment Ranges



15 Watt

TBLC 15

- 2.34 x 1.06 x 3.52" - Plastic Enclosure
- 5 | 12 | 24V_{OUT} with 81~85% Efficiency
- -25°C to +70°C Operation (Derate 2.5%/K>+55°C)



25 Watt

TBLC 025

- 2.34 x 1.42 x 3.52" - Plastic Enclosure
- 5 | 12 | 24V_{OUT} with 82~87% Efficiency
- -25°C to +70°C Operation (Derate 2.5%/K> +55°C)



30 Watt

TBL 030

- 2.07 x 3.52 x 2.34" - Plastic Enclosure
- 12~16 | 24~28V_{OUT} with 81~83% Efficiency
- -25°C to +70°C Operation (Derate 2.5%/K>+60°C)



30 Watt

TPC 030

- 3.80 x 3.54 x 1.04" - Plastic Enclosure
- 5 | 12 | 24 | 48V_{OUT} with 79~84% Efficiency
- -25°C to +70°C Operation (Derate 2.5%/K>+50°C)



50 Watt

TBLC 050

- 2.34 x 2.13 x 3.52" - Plastic Enclosure
- 12 | 24V_{OUT} with 88~89% Efficiency
- -25°C to +70°C Operation (Derate 2.5%/K>+55°C)



55 Watt

TPC 055

- 3.80 x 3.54 x 1.77" - (96.5 x 89.9 x 44.9mm)
- 12 | 24 | 48V_{OUT} with up to 87% Efficiency
- -25°C to +70°C Operation (Derate 2.5%/K>+50°C)



60 Watt

TBL 060

- 2.76 x 3.52 x 2.34" - Plastic Enclosure
- 12~16 | 24~28V_{OUT} with 83~85% Efficiency
- -25°C to +70°C Operation (Derate 2.5%/K>+60°C)



75 Watt

TBLC 75

- 2.34 x 2.83 x 3.52" - Plastic Enclosure
- 12 | 24V_{OUT} with 89% Efficiency
- -25°C to 70°C Operation (Derate 2.5%/K> +55°C)



80 Watt

TIB 080

- 3.88 x 1.26 x 4.50" - Rugged Metal Enclosure
- 12 / 24 / 48V_{OUT} +15% Adjust with 88~90% Efficiency
- -25°C to +70°C Operation (Derate 2%/K>+60°C)
- 150% Peak Load for 4 Seconds
- Power-back immunity
- 5 year warranty



80 Watt

TPC 080

- 3.80 x 3.54 x 2.48" - Plastic Enclosure
- 12 | 24 | 48V_{OUT} with up to 87% Efficiency
- -25°C to +70°C Operation (Derate 2.5%/K>+50°C)



ALL MODELS FEATURE:

- UL 508-1 Listed
- UL 60950-1 / UL62368-1 Approved
- Universal or Auto-Ranging AC Input
- 3 Year Warranty

90 Watt TBL 090

- 4.13 x 3.52 x 2.34" - Plastic Enclosure
- 12~16 / 24~28V_{OUT} with 84~86% Efficiency
- -25°C to +70°C Operation (Derate 2.5%/K>+60°C)



90 Watt TBLC 90

- 2.34 x 3.54 x 3.52" - Plastic Enclosure
- 12 | 24V_{OUT} with 90% Efficiency
- -25°C to +70°C Operation (Derate 2.5%/K>+55°C)



120 Watt TIB 120

- 4.89 x 1.42 x 4.50" - Rugged Metal Enclosure
- 12 / 24 / 48V_{OUT} +15% Adjust with 94% Efficiency
- -40°C to +70°C Operation (Derate 2%/K>+60°C)
- 150% Peak Load for 4 Seconds
- Power-back immunity
- 5 year warranty



120 Watt TPC 120

- 4.33 x 3.54 x 2.83" - Plastic Enclosure
- 12 | 24 | 48V_{OUT} with up to 87% Efficiency
- -25°C to +70°C Operation (Derate 2.5%/K>+50°C)



150 Watt TBL 150

- 6.89 x 3.52 x 2.34" - Plastic Enclosure
- 12~16 / 24~28 V_{OUT} with 84~87% Efficiency
- -25°C to +70°C Operation (Derate 2.5%/K>+60°C)



240 Watt TIB 240

- 4.89 x 1.89 x 4.50" - Rugged Metal Enclosure
- 24 / 48V_{OUT} +15% Adjust with 95% Efficiency
- -40°C to +70°C Operation (Derate 2%/K>+60°C)
- 150% Peak Load for 4 Seconds
- Power-back immunity
- 5 year warranty



480 Watt TIB 480

- 4.89 x 3.23 x 4.50" - Rugged Metal Enclosure
- 24 / 48V_{OUT} +15% Adjust with 95% Efficiency
- -40°C to +70°C Operation (Derate 2%/K>+60°C)
- 150% Peak Load for 4 Seconds
- Power-back immunity
- 5 year warranty



Encapsulated Chassis Mount products with DIN Rail Mount Clips

(page 9 for details)

TMM-C Models

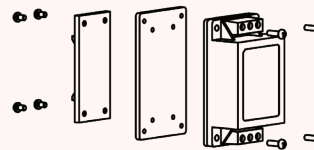
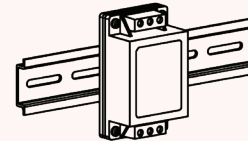
-40°C to +75~80°C + Medical Isolation

- TMM24C 3.78 x 2.13 x 0.92"
- TMM40C 4.41 x 2.51 x 1.34"
- TMM60C 4.41 x 2.67 x 1.50"

TMP-C Models

-25°C to +70°C Convection

- TMP15C 3.78 x 2.13 x 0.92"
- TMP30C 4.41 x 2.51 x 1.01"
- TMP60S 4.41 x 2.67 x 1.50"



Wall / Flush Box Mount

(page 6 for details)

Small DC-power supplies which have been designed particularly for applications in home and office installations.

Features:

- -25°C to +50°C Full Load Operation
- IP67 Rated Enclosure
- Protection Class II
- Safety Approved to
 - IEC/EN60950-1
 - EN50178
 - EN 60335-1
 - UL 1310
- 6 / 12 / 24 Watt Models



6 Watt

TMDC 06

- 2.09 x 1.34 x 1.04" - Encapsulated Chassis Mount
- 4:1 Input Ranges (9~36 | 18~75 VDC)
- Single & Dual 5~48V_{OUT} with 92% Efficiency
- Optional DIN Rail Mounting Kit
- -40°C to +92.5°C Convection (with derating)



NEW - UNDER DEVELOPMENT

6 Watt

TMDC 06H

- 2.09 x 1.34 x 1.04" - Encapsulated Chassis Mount
- 2:1 Input Ranges (80-160 VDC)
- Single & Dual 5~48V_{OUT} with 85% Efficiency
- Optional DIN Rail Mounting Kit
- 3,000 VAC Isolation (reinforced)
- -40°C to +92.5°C Convection (with derating)



NEW - UNDER DEVELOPMENT

10 Watt

TMDC 10

- 3.10 x 1.34 x 0.87" - Encapsulated Chassis Mount
- 4:1 Input Ranges (9~36 | 18~75 VDC)
- Single & Dual 5~48V_{OUT} with 86% Efficiency
- Optional DIN Rail Mounting Kit
- -40°C to +92.5°C Convection (with derating)



NEW - UNDER DEVELOPMENT

10 Watt

TMDC 10H

- 3.10 x 1.34 x 0.87" - Encapsulated Chassis Mount
- 2:1 Input Range (80-160 VDC)
- Single and Duals 5.1~48V_{OUT} 86% efficiency
- Optional DIN Rail Mounting Kit
- 3,000 VAC Isolation (Reinforced)
- -40°C to +92.5°C Convection (with derating)



NEW - UNDER DEVELOPMENT

12 Watt

TCL 012-124DC

- 1.06 x 2.95 x 3.94" - Plastic Case
- 2:1 Input Ranges (9.5~18 VDC)
- 24V_{OUT} with ~86% Efficiency
- -25°C to +70°C Convection (Derate 1.5%/K>+50°C)
- 1,500 VDC Isolation



20 Watt

TMDC 20

- 3.78 x 2.13 x 0.92" - Plastic Encapsulated
- 4:1 Input Ranges (9~36 | 18~75 VDC)
- 5 | 12 | 24 | 48V_{OUT} with 89~91% Efficiency
- -40°C to +90°C Convection (Derate 10%/K>+85°C)
- 2,500 VDC Isolation
- Remote On/Off Control
- Optional DIN Rail Kit



20 Watt

TMDC 20H

- 3.78 x 2.13 x 0.92" - Encapsulated Chassis Mount
- 2:1 Input Ranges (80-160 VDC)
- Single & Dual 5~48V_{OUT} with 89~91% Efficiency
- -40°C to +90°C Ambient (Derate 10%/K>+85°C)
- Optional DIN Rail Mounting Kit
- 3,000 VDC Isolation (reinforced)
- EN55032 Class A Filter
- Remote On/Off



NEW - UNDER DEVELOPMENT

24 Watt

TCL 024DC

- 1.06 x 2.95 x 3.94" - Plastic Case
- 4:1 Input Ranges (18~75 VDC)
- 5 | 12 | 24V_{OUT} with ~86% Efficiency
- -25°C to +70°C Convection (Derate 1.5%/K>+50°C)
- 1,500 VDC Isolation



40 Watt

TMDC 40

- 4.41 x 2.51 x 1.01" - Plastic Encapsulated
- 4:1 Input Ranges (9~36 | 18~75 VDC)
- 5 | 12 | 24 | 48V_{OUT} with 89~92% Efficiency
- -40°C to +85°C Convection (Derate 4.5%/K>+73°C)
- 2,500 VDC Isolation
- Remote On/Off Control
- Optional DIN Rail Kit



40 Watt

TMDC 40H

- 4.41 x 2.51 x 1.01" - Encapsulated Chassis Mount
- 2:1 Input Ranges (80-160 VDC)
- Single & Dual 5~48V_{OUT} with 89~92% Efficiency
- -40°C to +90°C Ambient (Derate >+75°C)
- Optional DIN Rail Mounting Kit
- 3,000 VDC Isolation (reinforced)
- EN55032 Class A Filter
- Remote On/Off



NEW - UNDER DEVELOPMENT

60 Watt

TCL 060DC

- 1.77 x 2.95 x 3.94" - Plastic Case
- 4:1 Input Ranges (18~75 VDC)
- 12 | 24V_{OUT} with ~86% Efficiency
- -25°C to +70°C Convection (Derate 1.5%/K>+50°C)
- 1500 VDC Isolation



60 Watt

TMDC 60

- 4.41 x 2.67 x 1.50" - Plastic Encapsulated
- 4:1 Input Ranges (9~36 | 18~75 VDC)
- 5 | 12 | 24 | 48V_{OUT} with 90~92% Efficiency
- -40°C to +85°C Convection (Derate 3.3%/K>+70°C)
- 2,500 VDC Isolation
- Remote On/Off Control
- Optional DIN Rail Kit



60 Watt TMD6 60H

- 4.41 x 2.67 x 1.50" - Plastic Encapsulated
- 2:1 Input Ranges (80-160 VDC)
- 5 | 12 | 24 | 48V_{OUT} with 90~92% Efficiency
- -40°C to +90°C Convection (Derate > +70°C)
- 3,000 VDC Isolation (reinforced)
- Remote On/Off
- DIN Rail Kit



NEW - UNDER DEVELOPMENT

75 Watt TEP 75WICM(F)

- 3.35 x 2.40 x 1.53" - Baseplate Cooled
- 4:1 Input Ranges (9~36 | 18~75 | 43~160 VDC)
- Single 5~48V_{OUT} with 87~91% Efficiency
- -40°C to +75°C Ambient (See Spec for Derating)
- Remote On/Off, Sense & VTrim Functions
- Optional Class B Filter (as shown) & DIN Rail Clip
- 2,250 VDC Isolation



100 Watt TEP 100CM(F)

- 3.35 x 2.40 x 1.53" - Baseplate Cooled
- 2:1 Input Ranges (9~18 | 18~36 | 36~75 VDC)
- Single 3.3~48V_{OUT} with 90~93% Efficiency
- -40°C to +75°C Ambient (See Spec for Derating)
- Remote On/Off, Sense & VTrim Functions
- Optional Class B Filter (as shown) & DIN Rail Clip
- 2,250 VDC Isolation



100 Watt TEP 100WIRCM(F)

- 3.35 x 2.40 x 1.53" - Baseplate Cooled
- 4:1 Input Ranges (9~36 | 18~75 | 43~160 VDC)
- Single 5~48V_{OUT} with 90~93% Efficiency
- -40°C to +85°C Ambient (Derate 4%/K>+65°C)
- Remote On/Off, Sense & VTrim Functions
- Optional Class B Filter (as shown) & DIN Rail Clip
- 2,250 VDC Isolation



100 Watt TEQ 100WIR

- 4.06 x 3.50 x 3.45" - Sealed Metal Case
- 4:1 Input Ranges (10~36 | 19~75 | 43~160 VDC)
- Single 12~48V_{OUT} with ~90% Efficiency
- -40°C to +105°C Ambient (Derate 5%/K>+85°C)
- Optional DIN Rail Clip
- Remote On/Off & Remote
- 2,250 VDC Isolation



150-196 Watt TEP 160CM(F)

- 3.35 x 2.40 x 1.53" - Baseplate Cooled
- 2:1 Input Ranges (16.5~36 | 33~75 VDC)
- Single 12~48V_{OUT} with 92~93% Efficiency
- -40°C to +75°C Ambient (See Spec for Derating)
- Remote On/Off, Sense & VTrim Functions
- Optional Class B Filter (as shown) & DIN Rail Clip
- 2,250VDC Isolation



142-182 Watt TEP 160WIRCM(F)

- 3.35 x 2.40 x 1.53" - Baseplate Cooled
- 4:1 Input Ranges (9~36 | 18~75 | 43~160 VDC)
- Single 12~48V_{OUT} with 90~91% Efficiency
- -40°C to +75°C Ambient (Derate 1.8%/K>+60°C)
- Remote On/Off, Sense & VTrim Functions
- Optional Class B Filter (as shown) & DIN Rail Clip
- 2,250 VDC Isolation



160 Watt TEQ 160WIR

- 4.00 x 3.50 x 3.92" - Sealed Metal Case
- 4:1 Input Ranges (19~75 | 43~160 VDC)
- Single 12~48V_{OUT} with 89~90% Efficiency
- -40°C to +75°C Ambient (Derate 3.7%/K>+78°C)
- Optional DIN Rail Clip
- Remote On/Off & Sense Functions
- 2,250 VDC Isolation



180-240 Watt TEP 200WIRCM(F)

- 3.35 x 2.40 x 1.53" - Baseplate Cooled
- 4:1 Input Ranges (9~36 | 18~75 | 43~160 VDC)
- Single 12~48V_{OUT} with 89~91% Efficiency
- -40°C to +75°C Ambient (See Spec for Derating)
- Remote On/Off, Sense & VTrim Functions
- 2,250 VDC Isolation
- Optional DIN Rail Clip



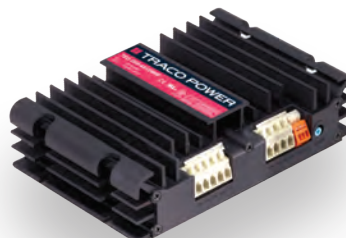
200 Watt TEQ 200WIR

- 4.06 x 3.45 x 3.50" - Sealed Metal Case
- 4:1 Input Ranges (19~75 | 43~160 VDC)
- Single 12~48V_{OUT} with 89~90% Efficiency
- -40°C to +105°C Ambient (Derate 2.85%/K>70°C)
- Optional DIN Rail Clip
- Remote On/Off & Sense Functions
- 2,250 VDC Isolation



300 Watt TEQ 300WIR

- 6.00 x 4.00 x 1.52" - Sealed Metal Case
- 4:1 Input Ranges (18~75 | 43~160 VDC)
- Single 12~48V_{OUT} with 89~92% Efficiency
- -40°C to +80°C Ambient (Derate 2.2%/K>+60°C)
- Remote On/Off, Sense & Current Share Functions
- 3,000 VDC Isolation





TRACO POWER SOLUTIONS Ltd.

Our design team offers our breadth of technology, experience and facilities to design, qualify and manufacture customized power solutions to meet your budget and time-to-market requirements. Our capabilities include:

- Research & design
- Commercial & technical support
- Pre-compliance safety and EMI test
- Mechanical and Thermodynamic tests
- HALT and performance test
- 100% functional test and burn-in
- Safety qualification and certification
- OEM and white label solutions

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