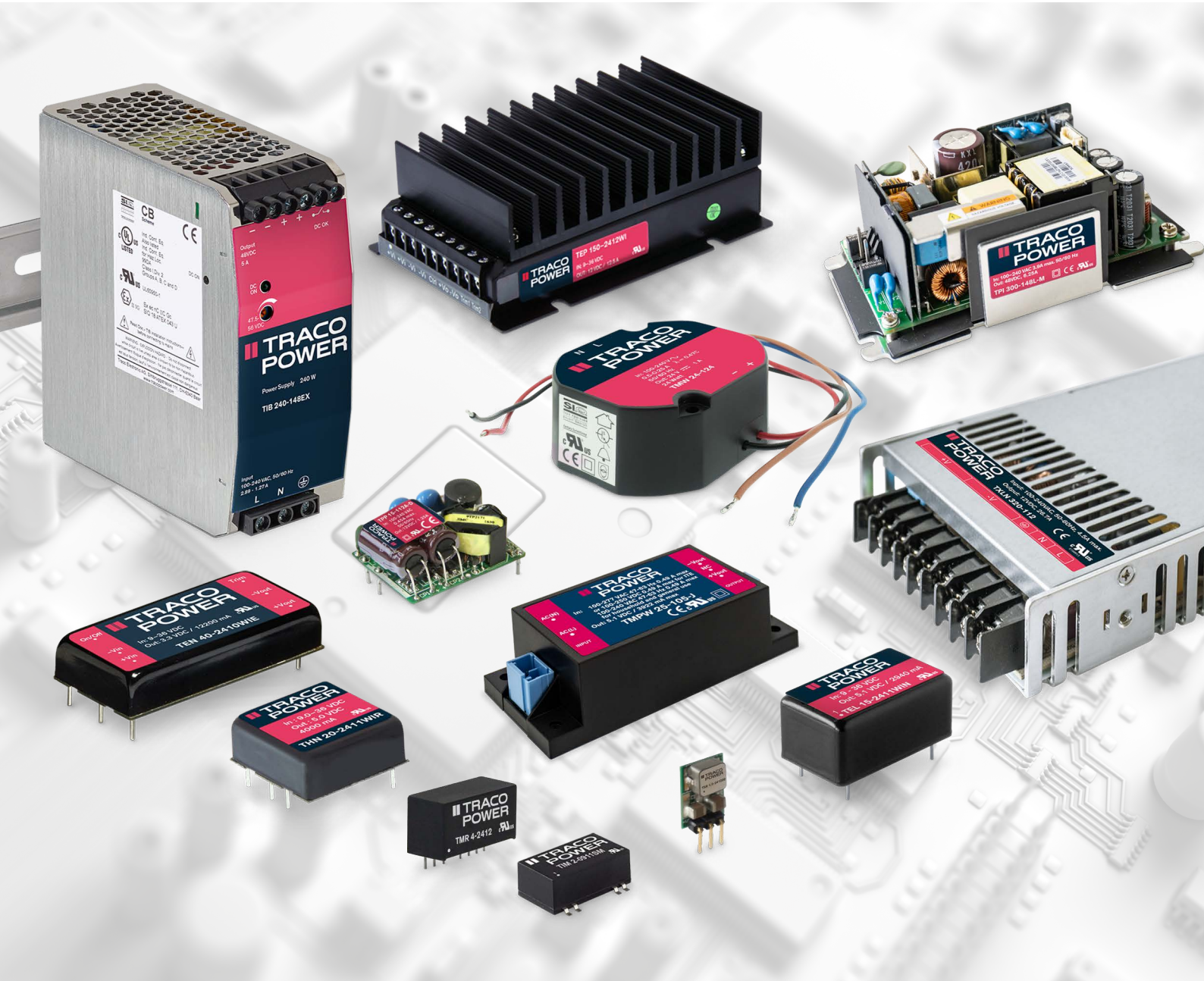
TRACO POWER

2023 | DC/DC Converters
AC/DC Power Supplies
Product Portfolio



www.tracopower.com

TRACO POWER

Company Profile

TRACO Electronic AG is a Swiss company with headquarters based in Baar, Switzerland. As a leading power supply specialist with more than 40 years experience we are dedicated to the design and manufacturing of high quality DC/DC and AC/DC power conversion products.

TRACO 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 four **vertical markets:**
Industrial, Medical & Healthcare, Railway / Ruggedized and Building Technology & Household.
Within these markets TRACO offers one of the most comprehensive programs for standard products in application areas such as:
Test & Measurement, Automation & Control, Robotics, Machinery, Therapy, Diagnostic, Laboratory, Home & Office Automation, White Goods, Transportation, Construction & Farming, Information Technology, Smartgrid, Renewable Energy, Oil & Gas.

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

Icons used throughout the catalog

High isolation products for medical applications

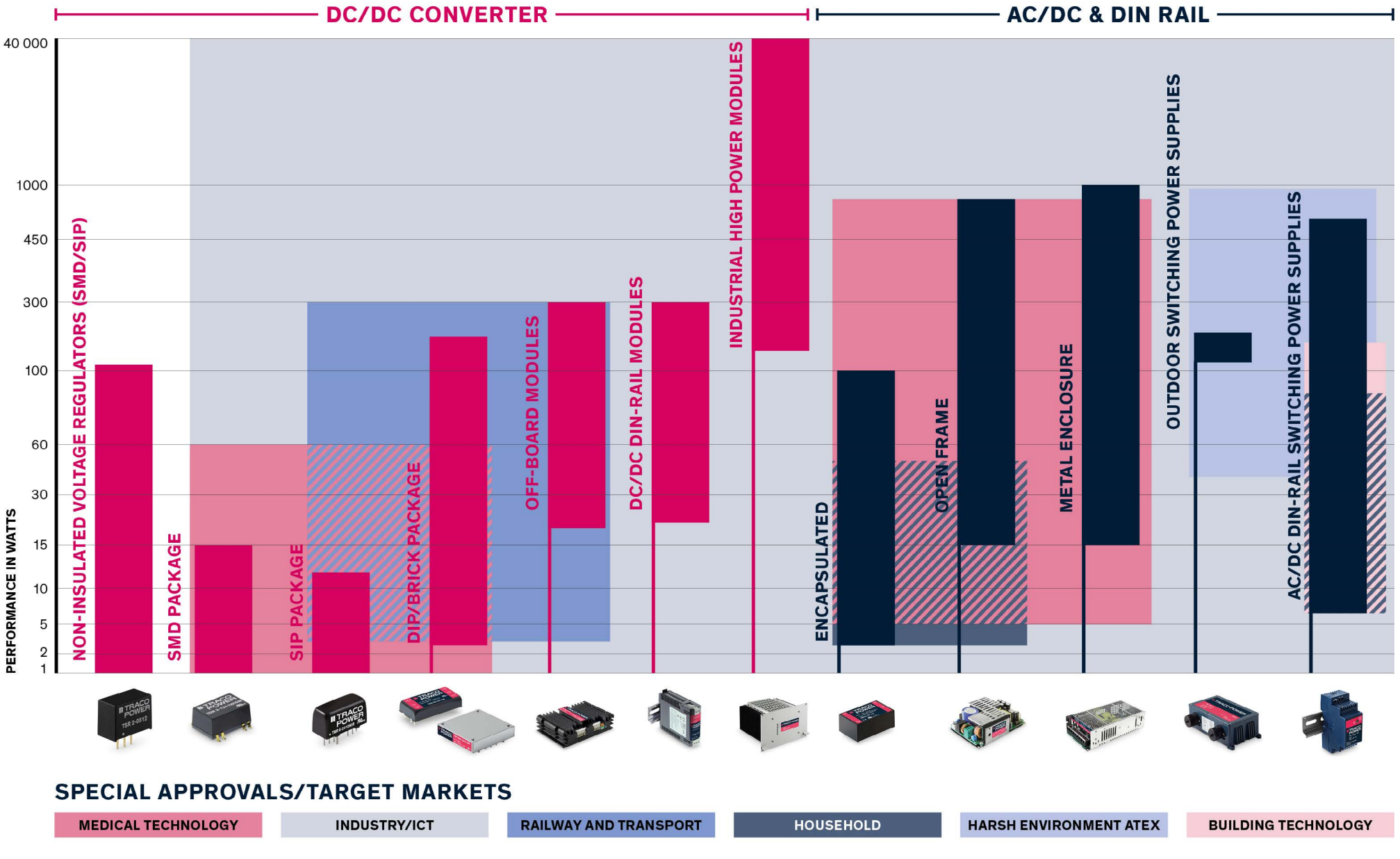
- Product certification according to IEC/EN/ES 60601-1 3rd edition for 2 × MOPP
- EMC emission according to IEC 60601-1-2 ed. 4
- Risk management process according to ISO 14971 including risk management file
- Acceptance criteria for electronic assemblies according to IPC-A-610 Level 3
- Design and production according to ISO 13485 quality management system
- 5-year product warranty

Ruggedized DC/DC converters for railway applications

- Approved to EN 50155 for electronic equipment used on rolling stock
- Shock and vibration test according EN 61373
- Qualification for the fire behavior of components according to EN 45545-2

Building Technology / Household

- Product certification according to IEC/EN 60335-1



SPECIAL APPROVALS/TARGET MARKETS

MEDICAL TECHNOLOGY | INDUSTRY/ICT | RAILWAY AND TRANSPORT | HOUSEHOLD | HARSH ENVIRONMENT ATEX | BUILDING TECHNOLOGY

Index

DC/DC Converters

AC/DC Power Supplies

DIN-Rail Mount System Solutions

Non-Isolated Step Down DC/DC Converters (POL) in SIP Package — 0.5 – 30 Amp

- Alternative to linear voltage regulators
- High efficiency up to 97%
- No heat-sink required
- Over-temperature protection
- Excellent line / load regulation
- Operating temperature –40 to +85°C

0.5 AMP — TSR 0.5

- +Vin/+Vout
- Input 4.75–32 VDC
- 1.5 to 15 Vout fixed
- LM78xx compatible
- 11.5 × 7.6 × 10.2 mm

0.6 AMP — TSR 0.6WI

- +Vin/+Vout
- Input 9.0–72 VDC
- 3.3 to 24 Vout fixed
- LM78xx compatible
- 12 × 8.6 × 13.4 mm

1 AMP — TSR 1

- +Vin/+Vout
- Input 1.2–36 VDC
- 1.5 to 15 Vout fixed
- LM78 compatible
- 11.7 × 7.6 × 10 mm

1 AMP — TSR 1E

- +Vin/+Vout
- Input 6–36 VDC
- 3.3 and 5.0 Vout fixed
- Cost optimized design
- LM78xx compatible
- 11.5 × 7.6 × 10.2 mm

1.0 AMP — TSR 1WI

- +Vin/+Vout
- Input 9.0–72 VDC
- 3.3 to 24 Vout fixed
- LM78xx compatible
- 12.1 × 8.6 × 17.5 mm

1 AMP — TSN 1

- –Vin/–Vout
- Input -7.0–32 VDC
- –5.0 to –15 Vout fixed
- LM79 compatible
- 11.7 × 7.5 × 16.5 mm

1 AMP — TSRN 1

- +Vin/+Vout or -Vout
- Input 4.6–36 VDC
- (±)1.5 to 15 Vout fixed
- 11.7 × 7.5 × 10.2 mm

1.5 AMP — TSR 1.5E

- +Vin /+Vout
- Input 7–36 VDC
- 3.3, 5.0, 12 Vout fixed
- Cost optimized design
- LM78xx compatible
- 9.6 × 6.4 × 14.9 mm

2 AMP — TSR 2

- +Vin/+Vout
- Input 3.0–36 VDC
- 1.2 to 15 Vout fixed
- LM78 compatible
- 14 × 7.5 × 10.1 mm

3 AMP — TSR 3

- +Vin/+Vout or –Vout
- Input 2.5–30 VDC
- (±) 0.6 to 15 Vout adjust.
- Remote On/Off
- Open frame
- 16.5 × 10.4 × 6 mm

6–30 AMP — TOS

- +Vin/+Vout
- Input 2.4–14 VDC
- 0.75 to 5.5 Vout adjust.
- Remote On/Off
- Open frame

Non-Isolated Step Down DC/DC Converters (POL) SMD Package — 0.5 – 30 Amp

- Alternative to linear voltage regulators
- High efficiency up to 97%
- No heat-sink required
- Over-temperature protection
- Excellent line / load regulation
- Operating temperature –40 to +85°C

0.5 AMP — TSR 0.5SM

- +Vin/+Vout
- Input 4.75–32 VDC
- 1.4 to 15.5 Vout adjust.
- Remote On/Off
- 15.3 × 9.6 × 9.2 mm

1 AMP — TSR 1SM

- +Vin/+Vout
- Input 3.0–36 VDC
- 1.2 to 15 Vout fixed
- 15.2 × 9.3 × 7.6 mm

1 AMP — TSRN 1SM

- +Vin/+Vout or –Vout
- Input 3.0–42 VDC
- (±)1.2 to 15.5 VDC adjust.
- Remote On/Off
- 15.2 × 9.3 × 7.3 mm

6–30 AMP — TOS

- +Vin/+Vout
- Input 2.4–14 VDC
- 0.75 to 5.5 VDC adjust.
- Remote On/Off
- Open frame

SMD DC/DC Converters — 1 – 15 Watt

- MSL Level 2a or better
- Operating temperature –40 to +85°C
- 1500 VDC I/O-isolation (standard)
- Single and dual output models
- Washable models on request
- Available in tape & reel package

1 WATT — TES 1N

NEW under development

- Cost efficient design
- ±10% Input 5, 12, 24 VDC
- 3.3 to 15 VDC (unregulated)
- 13.6 × 8.8 × 7.85 mm (single)
- 15.2 × 8.4 × 7.85 mm (dual)

1 WATT — TES 1

- ±10% Input 5, 12, 24 VDC
- 3.3 to 15 VDC (unregulated)
- 13.7 × 8.0 × 7.0 mm (single)
- 16.2 × 8.0 × 7.0 mm (dual)

1 WATT — TES 1V

- 3000 VDC I/O-isolation
- ±10% Input 5, 12, 24 VDC
- 3.3 to 15 VDC (unregulated)
- 16.3 × 8.0 × 8.0 mm

1 WATT — TRN 1SM

- 2:1/3:1 Input 4.5 to 75 VDC
- 3.3 to 24 VDC
- 11.9 × 11.3 × 8.0 mm

1 WATT — TDN 1WISM

- 4:1 Input 4.5 to 75 VDC
- 3.3 to 24 VDC
- Remote On/Off
- 13.2 × 9.1 × 10.2 mm

1 WATT — TMR 1SM

- 2:1 Input 4.5 to 75 VDC
- 5.0 to 24 VDC
- Remote On/Off
- 18.9 × 13.7 × 8.7 mm

1 WATT — TRI 1SM

NEW

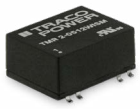
- Unregulated
- 3000 VAC I/O-isolation rated for 480 VACrms working voltage (reinforced)
- 8000 VDC peak isolation (1s)
- ±10 % Input 5 to 24 VDC
- 5.0 to 15 VDC
- 18.9 × 13.7 × 10.5 mm

2 WATT — TES 2H

- ±10 % Input 5, 12, 24 VDC
- 3.3 to 15 VDC (unregulated)
- 16.3 × 9.3 × 8.9 mm

2 WATT — TMR 2WISM

- 4:1 Input 4.5 to 75 VDC
- 5.0 to 24 VDC
- Remote On/Off
- IEC/UL 62368-1
- 19.0 × 14.9 × 8.7 mm



2 WATT — TDR 2(WI)SM

- Epoxy over mold (washable)
- 2:1 or 4:1 Input 4.5 to 75 VDC
- 3.3 to 15 VDC
- Remote On/Off
- IEC/UL 62368-1
- 18.9 × 12.8 × 8.7 mm

2 WATT — TRS 2

- 2:1/3:1 Input 4.5 to 75 VDC
- 3.3 to 24 VDC
- 11.9 × 11.3 × 8.0 mm

2 WATT — TES 2M

- 4 kVAC I/O-isolation
- ±10 % Input 5, 12, 24 VDC
- 5.0 to 15 VDC (unreg.)
- IEC 60601-1 (2 × MOOP)
- 24.0 × 13.7 × 9.3 mm

2 WATT — ⊕ TIM 2SM

- Medical safety approval
- 2:1/3:1 Input 4.5 to 75 VDC
- 3.3 to 24 VDC
- IEC/UL 62368-1, IEC/ES 60601-1
- SMD-16 (24.3 × 14.4)

3 WATT — TRN 3SM

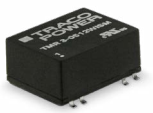
- 2:1/3:1 Input 4.5 to 75 VDC
- 3.3 to 24 VDC
- 11.9 × 11.3 × 8.0 mm

3 WATT — TDN 3WISM

- 4:1 Input 4.5 to 75 VDC
- 3.3 to 24 VDC
- Remote On/Off
- Compact design
- 13.2 × 9.1 × 10.2 mm

3 WATT — TMR 3WISM

- 4:1 Input 4.5 to 75 VDC
- 5.0 to 24 VDC
- Remote On/Off
- IEC/UL 62368-1
- 19.0 × 14.9 × 8.7 mm



3 WATT — TDR 3(WI)SM

- Epoxy over mold (washable)
- 2:1 or 4:1 Input 4.5 to 75 VDC
- 5.0 to 15 VDC
- Remote On/Off
- IEC/UL 62368-1
- 18.9 × 12.8 × 8.7 mm

3.5 WATT — TIM 3.5SM

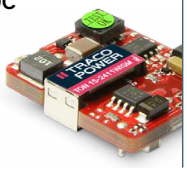
- Medical safety approval (2 × MOPP)
- 2:1/3:1 Input 4.5 to 75 VDC
- 5.0 to 24 VDC
- IEC/UL 62368-1, IEC/ES 60601-1
- SMD-16 (24.3 × 14.4)

5 WATT — TDN 5WISM

- 4:1 Input 4.5 to 75 VDC
- 3.3 to 24 VDC
- Remote On/Off
- Compact design
- 13.2 × 9.1 × 10.2 mm

15 WATT — TON 15(WI)SM

- EN 55032 class A filter
- 2:1 or 4:1 Input. 9 to 75 VDC
- 3.3 to 15 VDC adjust.
- Remote On/Off
- IEC/UL 62368-1
- 27.9 × 23.9 × 8.5 mm



SIP DC/DC Converters — 1 – 12 Watt

- Single and dual output models (standard)
- Operating temperature –40 to +85°C
- IT approval acc. to IEC/EN/UL 62368-1 (for regulated & high isolation converters)
- 1500 VDC I/O-isolation (standard)

1 WATT — TBA 1E

- Unregulated
- Short circuit protection
- ±10% Input 5 to 24 VDC
- 5.0 to 15 VDC
- 19.5 × 6 × 10 mm

1 WATT — TEA 1E

- Unregulated
- Cost optimized design
- ±10% Input 5 VDC
- 5 VDC output (single)
- 19.5 × 6 × 10 mm

1 WATT — TMA

- Unregulated
- ±10% Input 5 to 24 VDC
- 5.0 to 15 VDC
- 19.5 × 6.1 × 10.2 mm

1 WATT — TBA 1

- Unregulated
- Short circuit protection
- Compact design
- ±10% Input 3.3 to 24 VDC
- 3.3 to 15 VDC (single only)
- 11.7 × 6 × 10 mm

1 WATT — TEA 1

- Unregulated
- Compact and cost optimized design
- ±10% Input 5 VDC
- 5 VDC output (single)
- 11.7 × 6 × 10.2 mm

1 WATT — TME

- Unregulated
- Compact design
- ±10% Input 3.3 to 24 VDC
- 3.3 to 15 VDC (single only)
- 11.5 × 6.1 × 10.2 mm

1 WATT — TMV

- Unregulated
- 3000 VDC I/O-isolation
- ±10 % Input 5 to 24 VDC
- 5.0 to 15 VDC
- 19.5 × 6.1 × 10.2 mm

1 WATT — TBA 1HI

- Unregulated
- Short circuit protection
- 3000 VDC I/O-isolation
- ±10% Input 5 to 24 VDC
- 5.0 to 15 VDC
- 19.5 × 6 × 10 mm

1 WATT — TEA 1HI

- Unregulated
- 4000 VDC I/O-isolation
- Cost optimized design
- ±10% Input 5 VDC
- 5 VDC output (single)
- 19.5 × 6 × 10 mm

1 WATT — TMV-HI

- Unregulated
- 5200 VDC I/O-isolation
- ±10% Input 5 to 24 VDC
- 3.3 to 15 VDC
- 19.5 × 7.5 × 10.2 mm

1 WATT — TMV-EN

- Unregulated
- 3000 VDC reinforced I/O-isolation
- ±10 %Input 5 to 12 VDC
- 5.0 to 15 VDC
- 22.0 × 7.5 × 12.5 mm

1 WATT — TRI 1 NEW

- Unregulated
- 3000 VAC I/O-isolation rated for 480 VACrms working voltage (reinforced)
- 8000 VDC peak isolation (1s)
- ±10 % Input 5 to 24 VDC
- 5.0 to 15 VDC
- 21 × 12.5 × 7.5 mm

1 WATT — TRV 1

- Semi regulation (load)
- 3000 VDC I/O-isolation
- ±10% Input 5 to 24 VDC
- 5.0 to 15 VDC
- 19.5 × 6.1 × 10.2 mm

1 WATT — TRV 1M

- Semi regulation
- Medical safety approval (2 × MOPP)
- 5000 VAC I/O-isolation (reinforced)
- ±10% Input 5 to 24 VDC
- 3.3 to 15 VDC
- 19.6 × 9.8 × 12.5 mm

1 WATT — TRN 1

- Regulated
- 2:1/3:1 Input 4.5 to 75 VDC
- 3.3 to 24 VDC
- 11.9 × 7.7 × 11.0 mm

1 WATT — TMR 1

- Regulated
- 2:1 Input 4.5 to 75 VDC
- 5.0 to 24 VDC
- 17.0 × 7.6 × 11.0 mm

2 WATT — TMU 2

NEW under development

- Unregulated
- Short circuit protection
- 1500 VDC I/O-isolation
- ±10% Input 5 to 24 VDC
- 5 to 24 VDC output
- 11.3 × 7.6 × 10.4 mm

2 WATT — TMV 2HI

- Unregulated
- 5200 VDC I/O-isolation
- ±10% Input 5 to 24 VDC
- 3.3 to 15 VDC
- 19.5 × 7.1 × 10.2 mm

2 WATT — TBA 2

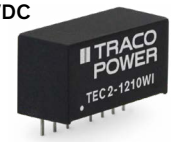
- Unregulated
- Short circuit protection
- 1500 VDC I/O-isolation
- ±10% Input 5 to 24 VDC
- 5.0 to 15 VDC
- 19.5 × 7.6 × 10.2 mm

2 WATT — TMH

- Unregulated
- ±10% Input 5 to 24 VDC
- 5.0 to 15 VDC
- 19.5 × 7.5 × 10.2 mm

2 WATT — TEC 2(WI)

- Regulated
- 2:1 or 4:1 Input 4.5 to 75 VDC
- 3.3 to 24 VDC
- Remote On/Off
- 21.8 × 9.1 × 11.2 mm



2 WATT — TMR 2

- Regulated
- 2:1 Input 4.5 to 75 VDC
- 3.3 to 12 VDC
- Remote On/Off
- 21.8 × 9.2 × 11.1 mm

2 WATT — TMR 2WIN

- Regulated
- 4:1 Input 4.5 to 75 VDC
- 3.3 to 15 VDC
- Remote On/Off
- 21.8 × 9.3 × 11.2 mm

2 WATT — TRV 2M

NEW

- Semi regulation
- Medical safety approval (2 × MOPP)
- 5000 VAC I/O-isolation (reinforced)
- ±10% Input 5 to 24 VDC
- 3.3 to 15 VDC
- 19.6 × 9.8 × 12.5 mm

3 WATT — TMU 3

NEW

- Unregulated
- Short circuit protection
- 1500 VDC I/O-isolation
- ±10% Input 5 to 24 VDC
- 5.0 to 15 VDC
- 11.5 × 8.6 × 10.2 mm

3 WATT — TRN 3

- Regulated
- 2:1/3:1 Input 4.5 to 75 VDC
- 3.3 to 24 VDC
- 11.9 × 7.7 × 11.0 mm

3 WATT — TEC 3(WI)

- Regulated
- 2:1 or 4:1 Input 4.5 to 75 VDC
- 3.3 to 24 VDC
- Remote On/Off
- 21.8 × 9.1 × 11.2 mm

3 WATT — TMR 3(WI)

- Regulated
- 2:1 or 4:1 Input 4.5 to 75 VDC
- 3.3 to 15 VDC
- Remote On/Off
- 21.8 × 9.2 × 811.2 mm

3 WATT — TMR 3HI

- Regulated
- 3000 VDC I/O-isolation
- 2:1 Input 4.5 to 75 VDC
- 3.3 to 15 VDC
- Remote On/Off
- 21.8 × 9.2 × 11.2 mm

3 WATT — TVN 3

- Ultra low ripple & noise
- 2:1/3:1 Input 4.5 to 75 VDC
- 3.3 to 24 VDC
- Remote On/Off
- 21.8 × 9.6 × 11.2 mm

3 WATT — TMR 3WIR

- Railway approval
- Regulated
- 3000 VDC I/O-isolation
- 4:1 Input 9 to 160 VDC
- 3.3 to 24 VDC
- 21.8 × 9.6 × 11.2 mm

4 WATT — TMR 4(WI)

- Regulated
- 2:1 or 4:1 Input 9 to 75 VDC
- 5 to 24 VDC
- Remote On/Off
- 21.8 × 9.3 × 11.2 mm

6 WATT — TMR 6(WI)

- Regulated
- 2:1 or 4:1 Input 4.5 to 75 VDC
- 3.3 to 24 VDC
- Remote On/Off
- 21.8 × 9.1 × 11.2 mm

6 WATT — TMR 6WIR

- Railway approval
- Regulated
- 3000 VDC I/O-isolation
- 4:1 Input 9 to 160 VDC
- 3.3 to 24 VDC
- 21.8 × 9.6 × 11.2 mm

9 WATT — TMR 9(WI)

- Regulated
- 2:1or 4:1 Input 9 to 75 VDC
- 3.3 to 24 VDC
- Remote On/Off
- 21.8 × 9.1 × 11.2 mm

12 WATT — TMR 12WI NEW

- Regulated
- 4:1 Input 4.5 to 75 VDC
- 3.3 to 24 VDC
- Remote On/Off
- 22 × 9.6 × 12 mm

High Performance DC/DC Converters — 1 – 80 Watt

- Fully regulated outputs
- Single, dual (and triple) output models
- 1500 VDC I/O-isolation (standard)
- IT approval acc. to IEC/EN/UL 62368-1
- Operating temperature –40 to +85°C
- Opt. heat-sink for most >10 Watt models
- Remote On/Off control

1 WATT — TDU 1 NEW

- Unregulated
- Short circuit protection
- 1500 VDC I/O-isolation
- ±10% Input 5 to 24 VDC
- 5 to 15 VDC output
- 12.7 × 10.2 × 8.0 mm

1 WATT — TDN 1WI

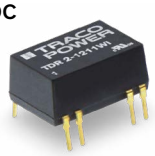
- 4:1 Input 4.5 to 75 VDC
- 3.3 to 24 VDC
- 13.2 × 9.1 × 10.2 mm

2 WATT — TDL 2

- Compact design
- 2:1 Input 4.5 to 75 VDC
- 3.3 to 15 VDC
- 14.0 × 14.0 × 8.0 mm

2 WATT — TDR 2(WI)

- Epoxy over-mold
- 2:1 or 4:1 Input 4.5 to 75 VDC
- 5.0 to 15 VDC
- 18.9 × 12.8 × 8.7 mm



2 WATT — TEL 2

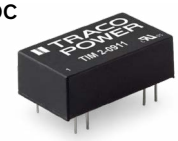
- 2:1 Input 4.5 to 75 VDC
- 3.3 to 15 VDC
- EN 55032 class A filter
- DIP-16 (23.8 × 13.7)

2 WATT — THI 2M

- Unregulated
- 2 × MOOP
- ±10 % Input 5 to 24 VDC
- 5.0 to 15 VDC
- DIP-16 (23.8 × 13.7)

2 WATT — TIM 2

- Medical safety approval
- 2:1/3:1 Input 4.5 to 75 VDC
- 3.3 to 24 VDC
- DIP-16 (24.3 × 14.4)



3 WATT — TDL 3

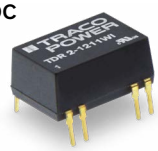
- Compact design
- 2:1 Input 4.5 to 75 VDC
- 3.3 to 15 VDC
- 14.0 × 14.0 × 8.0 mm

3 WATT — TDN 3WI

- Ultra compact design
- 4:1 Input 4.5 to 75 VDC
- 3.3 to 24 VDC
- 13.2 × 9.1 × 10.2 mm

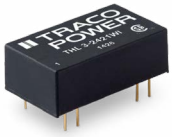
3 WATT — TDR 3(WI)

- Epoxy over-mold
- 2:1 or 4:1 Input 4.5 to 75 VDC
- 5.0 to 15 VDC
- 18.9 × 12.8 × 8.7 mm



3 WATT — THL 3WI

- 4:1 Input 9 to 75 VDC
- 3.3 to 24 VDC
- EN 55032 class A filter
- DIP-16 (23.8 × 13.7)



3 WATT — TEM 3N

- Cost down redesign
- ±10% Input 5 to 24 VDC
- 5.0 to 15 VDC
- EN 55032 class A filter
- DIP-24 (32 × 20.3)

3 WATT — TEN 3(WI)N

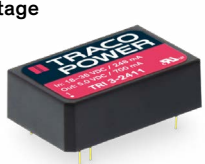
- Cost down redesign
- 2:1 or 4:1 Input 4.5 to 75 VDC
- 3.3 to 24 VDC
- EN 55032 class A filter
- DIP-24 (32 × 20.3)

3 WATT — TEN 3WIRH

- Railway approval
- 4:1 Input 36 to 160 VDC
- 3.3 to 24 VDC
- Reinforced Isolation
- DIP-24 (32 × 20.3)

3.5 WATT — TRI 3

- 5000 VAC I/O-isolation rated for 1000 Vrms working voltage
- 2:1 Input 4.5 to 75 VDC
- 5 to 24 VDC
- EN 55032 class A filter
- DIP-24 (32 × 20.3)



3 WATT THR 3WI

- 3000 VAC I/O-isolation (reinforced)
- 4:1 Input 9 to 160 VDC
- 5 to 15 VDC
- EN 55032 class A filter
- DIP-24 (32 × 20.3)

3 WATT THI 3

- Regulated
- ±10% Input 5 to 24 VDC
- 5.0 to 15 VDC
- 2 × MOOP
- EN 55032 class A filter
- DIP-24 (32 × 20.3)

3 WATT THP 3

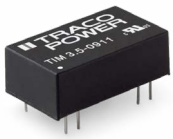
- Regulated
- 4:1 Input 9 to 160 VDC
- 5.0 to 12 VDC
- 2 × MOOP
- EN 55032 class A filter
- DIP-24 (32 × 20.3)

3 WATT ⊕ THM 3(WI)

- Medical safety approval
- 2:1 or 4:1 Input 4.5 to 75 VDC
- 3.3 to 24 VDC
- EN 55032 class A filter
- DIP-24 (32 × 20.3)

3.5 WATT ⊕ TIM 3.5

- Medical safety approval
- 2:1/3:1 Input 4.5 to 75 VDC
- 5.0 to 24 VDC
- DIP-16 (24.3 × 14.4)



5 WATT TDN 5WI

- Highest power density
- 4:1 Input 4.5 to 75 VDC
- 3.3 to 24 VDC
- 13.2 × 9.1 × 10.2 mm

5 WATT TVN 5WI

- Ultra low ripple & noise
- 4:1 Input 4.5 to 75 VDC
- 3.3 to 48 VDC
- EN 55032 class B filter
- Case pin
- DIP-24 (32 × 20.3)

5 WATT TEL 5

- Cost optimized
- 2:1 Input 9 to 36 VDC
- 3.3 to 15 VDC
- DIP-24 (32 × 20.3)

6 WATT TMDC 06

- 4:1 Input 9 to 75 VDC
- 5.1 to 48 VDC
- EN 55032 class A filter
- Chassis/DIN-rail
- Screw terminal connection
- 53 × 34 × 26.5 mm

6 WATT TMDC 06H

- 2:1 Input 80 to 160 VDC
- 5.1 to 48 VDC
- EN 55032 class A filter
- Chassis/DIN-rail
- Screw terminal connection
- 53 × 34 × 26.5 mm

6 WATT TEL 6 NEW

- Cost efficient design
- 2:1 Input 9 to 75 VDC
- 5 to 24 VDC
- EN 55032 class A filter
- DIP-16 (24.3 × 14.4)

6 WATT TEL 6WI NEW

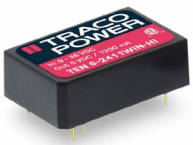
- Cost efficient design
- 4:1 Input 9 to 75 VDC
- 5 to 24 VDC
- EN 55032 class A filter
- DIP-16 (24.3 × 14.4)

6 WATT TEN 6(WI)N

- 2:1 or 4:1 Input 9 to 75 VDC
- 3.3 to 24 VDC
- EN 55032 class A filter
- DIP-24 (32 × 20.3)

6 WATT TEN 6WIN-HI

- 3000 VDC I/O-isolation
- 4:1 Input 9 to 75 VDC
- 3.3 to 24 VDC
- EN 55032 class A filter
- DIP-24 (32 × 20.3)



6 WATT TEN 6WIRH

- Railway approval
- 4:1 Input 36 to 160 VDC
- 3.3 to 24 VDC
- Reinforced Isolation
- DIP-24 (32 × 20.3)

6 WATT TRI 6

- 5000 VAC I/O-isolation rated for 1000 Vrms working voltage
- 2:1 Input 9.0 to 75 VDC
- 5.0 to 24 VDC
- EN 55032 class A filter
- DIP-24 (32 × 20.3)

6 WATT ⊕ THM 6(WI)

- Medical safety approval
- 2:1 or 4:1 Input 4.5 to 75 VDC
- 3.3 to 24 VDC
- EN 55032 class A filter
- DIP-24 (32 × 20.3)

6 WATT ⊕ TIM 6 NEW

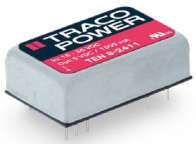
- Medical safety approval
- 2:1 Input 9 to 75 VDC
- 3.3 to 15 VDC
- EN 55032 class A filter
- DIP-24 (32 × 20.3)

8 WATT TEL 8(WI)

- 2:1 or 4:1 Input 9 to 75 VDC
- 3.3 to 24 VDC
- EN 55032 class A filter
- DIP-16 (24.1 × 14)

8 WATT TEN 8

- 2:1 Input 9 to 75 VDC
- 3.3 to 15 VDC
- EN 55032 class A filter
- DIP-24 (32 × 20.3)



8 WATT TEN 8WI

- Railway approval
- 4:1 Input 9 to 160 VDC
- 3.3 to 15 VDC
- Increased EMC immunity
- DIP-24 (32 × 20.3)

10 WATT TEL 10

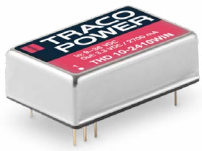
- Highest power density of 3.83 W/cm³
- 2:1 Input 9 to 75 VDC
- 3.3 to 24 VDC
- EN 55032 class A filter
- DIP-16 (23.8 × 13.3)

10 WATT TEL 10WI

- Highest power density of 3.83 W/cm³
- 4:1 Input 9 to 75 VDC
- 3.3 to 24 VDC
- EN 55032 class A filter
- DIP-16 (23.8 × 13.3)

10 WATT THD 10(WI)N

- 2:1 or 4:1 Input 9 to 75 VDC
- 3.3 to 24 VDC
- EN 55032 class A filter
- DIP-24 (32 × 20.3)



10 WATT THN 10WIR

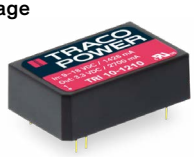
- Railway approval
- EN 55032 class A filter
- 4:1 Input 9 to 160 VDC
- 3.3 to 24 VDC adjust.
- Increased EMC immunity
- 1" × 1"

10 WATT TEN 10WIRH

- Railway approval
- 4:1 Input 36 to 160 VDC
- 3.3 to 24 VDC
- Reinforced Isolation
- DIP-24 (32 × 20.3)

10 WATT TRI 10

- 5000 VAC I/O-isolation rated for 1000 Vrms working voltage
- 2:1 Input 9 to 75 VDC
- 3.3 to 24 VDC
- EN 55032 class A filter
- DIP-24 (32 × 20.3)



10 WATT THR 10WI

- 3000 VAC I/O-isolation (reinforced)
- 4:1 Input 9 to 160 VDC
- 5 to 24 VDC
- EN 55032 class A filter
- 2" × 1"

10 WATT THM 10(WI)

- Medical safety approval
- 2:1 or 4:1 Input 4.5 to 75 VDC
- 3.3 to 24 VDC
- EN 55032 class A filter
- DIP-24 (32 × 20.3)

10 WATT TMDC 10

- Chassis/DIN-rail
- Screw terminal connection
- 4:1 Input 9 to 75 VDC
- 5.1 to 48 VDC
- EN 55032 class A filter
- 79 × 34 × 22 mm

10 WATT TMDC 10H

- Chassis/DIN-rail
- Screw terminal connection
- 2:1 Input 80 to 160 VDC
- 5.1 to 48 VDC
- EN 55032 class A filter
- 79 × 34 × 22 mm

12 WATT TEL 12

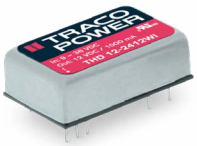
- Highest power density of 3.61 W/cm³
- 2:1 Input 9 to 75 VDC
- 5.1 to 24 VDC
- EN 55032 class A filter
- DIP-16 (23.8 × 13.3)

12 WATT TEL 12WI

- Highest power density of 3.61 W/cm³
- 4:1 Input 9 to 75 VDC
- 5.1 to 24 VDC
- EN 55032 class A filter
- DIP-16 (23.8 × 13.3)

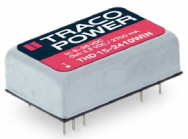
12 WATT THD 12(WI)

- 2:1 or 4:1 Input 9 to 75 VDC
- 3.3 to 15 VDC
- EN 55032 class A filter
- DIP-24 (32 × 20.3)



15 WATT THD 15(WI)N

- 2:1 or 4:1 Input 9 to 75 VDC
- 3.3 to 15 VDC
- EN 55032 class A filter
- DIP-24 (32 × 20.3)



15 WATT THN 15N

- 2:1 Input 9 to 75 VDC
- 3.3 to 48 VDC adjust.
- EN 55032 class A filter
- 1" × 1"
- Low no-load power consumption

15 WATT THL 15WI

- cost efficient design
- 4:1 Input 9 to 75 VDC
- 3.3 to 24 VDC adjust.
- EN 55032 class A filter
- 1" × 1"

15 WATT THN 15WI

- 4:1 Input 9 to 75 VDC
- 3.3 to 48 VDC adjust.
- 1" × 1"
- Remote On/Off

15 WATT TEL 15N NEW

- Highest power density 4.51 W/cm³
- 2:1 Input 9 to 75 VDC
- 5 to 24 VDC
- EN 55032 class A filter
- DIP-16 (23.8 × 13.7)

15 WATT TEL 15N-HS NEW

- High temperature range, up to 70°C without derating
- 2:1 Input 9 to 75 VDC
- 5 to 24 VDC
- EN 55032 class A filter
- DIP-16 (24.4 × 14.3 × 24.4)

15 WATT TEL 15WIN NEW

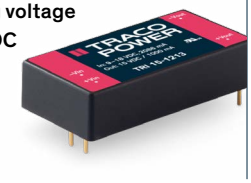
- Highest power density of 4.51 W/cm³
- 4:1 Input 9 to 75 VDC
- 5 to 24 VDC
- EN 55032 class A filter
- DIP-16 (23.8 × 13.7)

15 WATT TEL 15WIN-HS NEW

- High temperature range, up to 70°C without derating
- 4:1 Input 9 to 75 VDC
- 5 to 24 VDC
- EN 55032 class A filter
- DIP-16 (24.4 × 14.3 × 24.4)

15 WATT TRI 15

- 4200 VAC I/O-isolation rated for 1000 Vrms working voltage
- 2:1 Input 9 to 75 VDC
- 5.1 to 24 VDC
- EN 55032 class A filter
- 2"×1"

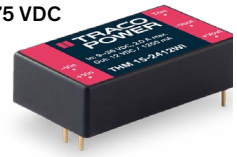


15 WATT THN 15WIR

- Railway approval
- EN 55032 class A filter
- 4:1 Input 9 to 160 VDC
- 3.3 to 48 VDC adjust.
- Increased EMC immunity
- 1"×1"

15 WATT THM 15(WI)

- Medical safety approval
- 2:1 or 4:1 Input 9 to 75 VDC
- 5.0 to 24 VDC
- EN 55032 class A filter
- 1.6"×1"



20 WATT THN 20(WI)

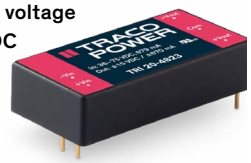
- 2:1 or 4:1 Input 9 to 75 VDC
- 3.3 to 48 VDC adjust.
- EN 55032 class A filter
- 1"×1"

20 WATT TEN 20WIN

- 4:1 Input 9 to 75 VDC
- 3.3 to 15 VDC adjust.
- Remote On/Off
- 2"×1"

20 WATT TRI 20

- 4200 VAC I/O-isolation rated for 1000 Vrms working voltage
- 2:1 Input 9 to 75 VDC
- 5.1 to 24 VDC
- EN 55032 class A filter
- 2"×1"



20 WATT THR 20WI

- 3000 VAC I/O-isolation (reinforced)
- 4:1 Input 9 to 160 VDC
- 5 to 24 VDC
- EN 55032 class A filter
- 2"×1"

20 WATT THN 20WIR

- Railway approval
- 4:1 Input 9 to 160 VDC
- 3.3 to 24 VDC adjust.
- Increased EMC immunity
- 1"×1"

20 WATT TEN 20WIR

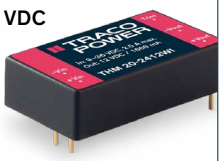
- Railway approval
- EN 55032 class A filter
- 4:1 Input 9 to 160 VDC
- 3.3 to 15 VDC adjust.
- Increased EMC immunity
- 2"×1"

20 WATT TEN 20WIRH

- Railway approval
- 4:1 Input 36 to 160 VDC
- 5.1 to 24 VDC
- Reinforced Isolation
- 1.6"×1"

20 WATT THM 20(WI)

- Medical safety approval
- 2:1 or 4:1 Input 9 to 75 VDC
- 5.0 to 24 VDC
- EN 55032 class A filter
- 1.6"×1"



20 WATT TMDC 20

- Chassis/DIN-rail
- Screw terminal connection
- 4:1 Input 9 to 75 VDC
- 5.1 to 48 VDC
- EN 55032 class A filter
- 3.8"×2.1"×0.9"

20 WATT TMDC 20H

- Chassis/DIN-rail
- Screw terminal connection
- 2:1 Input 80 to 160 VDC
- 5.1 to 48 VDC
- EN 55032 class A filter
- 3.8"×2.1"×0.9"

20 WATT TEQ 20WIR

- Railway approval
- EN 55032 class B filter
- 4:1 Input 9 to 160 VDC
- 5.0 to 24 VDC adjust.
- Increased EMC immunity
- Temp. range –40 to 93°C
- 4.1"×2.3"×1"

25 WATT THL 25(WI)

- 2:1 or 4:1 Input 9 to 75 VDC
- 3.3 to 15 VDC adjust.
- Remote On/Off
- 1"×1"

30 WATT TEN 30

- 2:1 Input 9 to 75 VDC
- 3.3 to 15 VDC adjust.
- Remote On/Off
- 2"×1"

30 WATT TEN 30WIN

- With triple output models
- 4:1 Input 9 to 75 VDC
- 3.3 to 15 VDC adjust.
- 2"×1"

30 WATT THN 30(WI)

- 2:1 or 4:1 Input 9 to 75 VDC
- 3.3 to 24 VDC adjust.
- Remote On/Off
- 1"×1"

30 WATT THL 30WI NEW

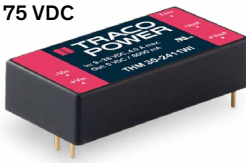
- High power density
- 4:1 Input 9 to 75 VDC
- 3.3 to 24 VDC adjust.
- EN 55032 class A filter
- 1"×1"

30 WATT THN 30WIR

- Railway approval
- 4:1 Input 9 to 160 VDC
- 3.3 to 24 VDC adjust.
- Increased EMC immunity
- 1"×1"

30 WATT THM 30(WI)

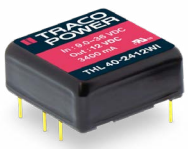
- Medical safety approval
- 2:1 or 4:1 Input 9 to 75 VDC
- 5.0 to 24 VDC
- EN 55032 class A filter
- 2"×1"



40 WATT THL 40WI

NEW under development

- 4:1 Input 9 to 75 VDC
- 5 to 24 VDC adjust.
- Highest power density
- Remote On/Off and Trim
- 1"×1"



40 WATT TEN 40(WI)E

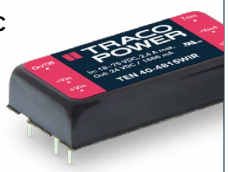
- 2:1 or 4:1Input 9 to 75 VDC
- 3.3 to 24 VDC adjust.
- Maximized quality in a cost efficient design
- Remote On/Off
- 2"×1"

40 WATT THR 40WI

- 3000 VAC I/O-isolation (reinforced)
- 4:1 Input 36 to 160 VDC
- 5 to 24 VDC
- 2"×1"

40 WATT TEN 40WIR

- Railway approval
- 4:1 Input 9 to 160 VDC
- 3.3 to 48 VDC adjust.
- Increased EMC immunity
- 2"×1"



40 WATT TEN 40WIRH

- Railway approval
- 4:1 Input 36 to 160 VDC
- 5.1 to 24 VDC
- Reinforced Isolation
- 2"×1"

40 WATT TEQ 40WIR

- Railway approval
- EN 55032 class B filter
- 4:1 Input 9.5 to 160 VDC
- 5.0 to 24 VDC adjust.
- Increased EMC immunity
- 4.1"×2.3"×1"

40 WATT TMDC 40

- Chassis/DIN-rail
- Screw terminal connection
- 4:1 Input 9 to 75 VDC
- 5.1 to 48 VDC
- EN 55032 class A filter
- 4.4"×2.5"×1"

40 WATT TMDC 40H

- Chassis/DIN-rail
- Screw terminal connection
- 2:1 Input 80 to 160 VDC
- 5.1 to 48 VDC
- EN 55032 class A filter
- 4.4"×2.5"×1"

50 WATT TEN 50(WI)

- 2:1 or 4:1 Input 9 to 75 VDC
- 3.3 to 24 VDC adjust.
- Over temperature protection
- Remote On/Off
- 2"×1"

60 WATT TEN 60(WI)N

- 2:1 or 4:1 Input 9 to 75 VDC
- 5.0 to 48 VDC adjust.
- EN 55032 class A filter
- 2"×1"

60 WATT TEN 60WIR

- Railway approval
- 4:1 Input 9 to 160 VDC
- 5 to 48 VDC adjust.
- Increased EMC immunity
- 2"×1"

60 WATT THM 60WI

NEW

- Medical safety approval
- 2×MOPP
- 4:1 Input 9 to 75 VDC
- 5.0 to 24 VDC adjust.
- 2.3"×1.45"×0.5"

60 WATT TMDC 60

- Chassis/DIN-rail
- Screw terminal connection
- 4:1 Input 9 to 75 VDC
- 5.1 to 48 VDC
- EN 55032 class A filter
- 4.4"×2.7"×1.5"

60 WATT TMDC 60H

- Chassis/DIN-rail
- Screw terminal connection
- 2:1 Input 80 to 160 VDC
- 5.1 to 48 VDC
- EN 55032 class A filter
- 4.4"×2.7"×1.5"

80 WATT TEN 80WI

NEW under development

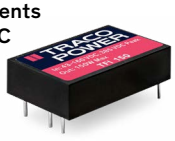
- 4:1 Input 9 to 75 VDC
- 5 to 48 VDC adjust.
- Highest power density
- Remote On/Off and Trim
- 2"×1"

High Power DC/DC Converters / RIA12 Surge Filters 40 – 300 Watt

- Excellent thermal management
- EN 55032 class A (chassis models)
- Increased EMC immunity
- Entire protective structure
- Control functions
- Wide selection of options

0–300 WATT TFI

- RIA 12, NF F01-510 Surge Filter
- Clamps overvoltage transients (up to 385 VDC) at 168 VDC
- Wide input 43 to 160 VDC
- Brownout voltage 36 VDC min.
- DIP-24 or 1.6"×1"



40 WATT TEP 40UIR

- Railway approval
- Ultra wide 12:1 Input 9 to 160 VDC
- 5 to 53 VDC adjust.
- PCB mount
- 2.3"×1.45"×0.5"

60 WATT TEP 60UIR

- Railway approval
- Ultra wide 12:1 Input 9 to 160 VDC
- 5 to 53 VDC
- PCB mount
- 2.3"×1.45"×0.5"

75 WATT — TEP 75WI

- Railway approval
- 4:1 Input 9 to 160 VDC
- 5.0 to 48 VDC adjust.
- PCB / chassis / DIN-rail
- 2.4"×2.3"×0.5"

100 WATT — TEP 100

- 2:1 Input 9 to 75 VDC
- 3.3 to 48 VDC adjust.
- PCB / chassis / DIN-rail
- 2.4"×2.3"×0.5"

100 WATT — TEP 100UIR

- Railway approval
- Ultra wide 12:1 Input 9 to 160 VDC
- 5 to 53 VDC
- PCB mount
- 2.3"×1.45"×0.5"

100 WATT — TEP 100WIR

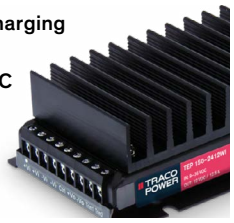
- Railway approval
- 4:1 Input 9.0 to 160 VDC
- 5.0 to 48 VDC adust.
- PCB / chassis / DIN-rail
- 2.4"×2.3"×0.5"

100 WATT — TEQ 100WIR

- Railway approval
- 85°C full load operation
- 4:1 Input 10.0 to 160 VDC
- 12 to 48 VDC adust.
- UL 508 approval
- 3"×4"×3.5"

150 WATT — TEP 150WI

- CV / CC for battery charging
- Railway approval
- 4:1 Input 9 to 160 VDC
- 12 to 48 VDC adust.
- EN 55032 class B (opt.)
- 98×65×38 mm



150 WATT — TEP 150UIR NEW

- Railway approval
- Ultra wide 10:1 Input 16 to 160 VDC
- 5 to 53 VDC
- PCB mount
- 2.4"×2.3"×0.5"

160 WATT — TEP 160

- 2:1 Input 16.5 to 75 VDC
- 12 to 53 VDC adust.
- PCB / chassis / DIN-rail
- Soft start
- 2.4"×2.3"×0.5"

160 WATT — TEP 160WIR

- Railway approval
- 4:1 Input 9.0 to 160 VDC
- 12 to 53 VDC adust.
- PCB / chassis / DIN-rail
- 2.4"×2.3"×0.5"

160 WATT — TEQ 160WIR

- Railway approval
- 75°C full load operation
- 4:1 Input 19 to 160 VDC
- 12 to 48 VDC adust.
- UL 508 approval
- 3"×4"×3.5"

200 WATT — TEP 200WIR

- Railway approval
- 4:1 Input 9.0 to 160 VDC
- 12 to 53 VDC adust.
- Chassis mount / PCB
- DIN-rail mount opt.
- 2.4"×2.3"×0.5"

200 WATT — TEP 200UIR NEW

- Railway approval
- Ultra wide 10:1 Input 16 to 160 VDC
- 5 to 53 VDC
- PCB mount
- 2.4"×2.3"×0.5"

200 WATT — TEQ 200WIR

- Railway approval
- 70°C full load operation
- 4:1 Input 19 to 160 VDC
- 12 to 48 VDC adust.
- UL 508 approval
- 3"×4"×3.5"

300 WATT — TEQ 300WIR

- CV / CC for battery charging
- Railway approval
- 4:1 Input 18 to 160 VDC
- 12 to 48 VDC adust.
- UL 508 approval
- Load share function
- 6"×4"×1.5"

Industrial DIN-Rail Mount DC/DC Converters — 20 – 300 Watt

- DC/DC modules designed for DIN-Rail mount
- DC/DC modules with optional mounting kit for DIN-Rail mount

24–60 WATT — TCL-DC

- Slim plastic casing
- UL 508 approval
- 4:1 Input 9.5 to 75 VDC
- 5.0 to 24 VDC
- EN 55032 class B filter
- 75×100×27/45 mm

20–60 WATT — TMDC Series

- Mounting kit for Modules
  TMDC 20
  TMDC 40
  TMDC 60

20–300 WATT — TEQ Series

- Mounting kit for all TEQ Series models (not on picture: TEQ 20WIR, TEQ 40WIR and TEQ 300WIR)

Industrial High Power Converters — 150 Watt – 40 kW / 45 kVA

- DC/DC & AC/DC converters up to 40 kW
- DC/AC inverters up to 45 kVA
- AC/AC static switches up to 10 kVA
- Eurocassette, 19" Plug-in Modules, wall/chassis mount or DIN-Rail mount
- IEC/EN/UL 62368-1 approvals
- Modular options and customised solutions

150–5000 WATT — TSC

- 19" plug-in /chassis / DIN
- 5 to 400 VDC
- Input 10 to 800 VDC or AC input
- Entire protection circuit
- Individual power solutions

5–40 kW — TSC 19

- 19" sub rack
- 5 to 800 VDC
- Input 40 to 800 VDC or AC input
- Entire protection circuit
- Individual power solutions

200 VA–45 kVA — TSD

- AC output with true sine wave
- Single and three phase
- 10 to 800 VDC input models
- AC input for frequency conversion
- Configurable for individual power solutions

Encapsulated AC/DC Power Modules — 3 – 100 Watt

- Universal input (85–264 VAC)
- EN 55032 class B filter
- ErP ready
- IEC/EN/UL 62368-1 approvals
- Start-up temperature –40°C for several series

3 WATT — TMPS 03

- PCB mount
- EN 60335-1 (household)
- 3.3 to 24 VDC
- 1" × 1" × 0.6"

4 WATT — TMLM 04

- PCB mount
- 3.3 to 24 VDC
- Single and dual
- Compact design

5 WATT — TMPS 05

- PCB mount
- EN 60335-1 (household)
- 3.3 to 48 VDC
- 1" × 1" × 0.6"

5 WATT — TMPW 5

- Extended input 90 to 305 VAC
- EN 60335-1 (household)
- PCB mount
- 3.3 to 24 VDC
- 1.45" × 1.08" × 0.7"

5 WATT — TMPW 5-J/-T

- Extended input 90 to 305 VAC
- EN 60335-1 (household)
- Chassis mount
- 3.3 to 24 VDC
- 2.17" × 1.08" × 0.91"

10 WATT — TMPS 10

- PCB mount
- Inc. EMC immunity
- EN 60335-1 (household)
- 3.3 to 48 VDC
- Ultra-compact design 1.5" × 1" × 0.6"

10 WATT — TMPW 10

- Extended input 90 to 305 VAC
- EN 60335-1 (household)
- PCB mount
- 5 to 24 VDC
- 1.45" × 1.08" × 0.8"

10 WATT — TMPW 10-J/-T

- Extended input 90 to 305 VAC
- EN 60335-1 (household)
- Chassis mount
- 5 to 24 VDC
- 2.17" × 1.08" × 0.91"

15 WATT — TMPW 15

NEW under development

- Extended input 90 to 305 VAC
- EN 60335-1 (house
- PCB mount
- 5 to 48 VDC
- 1.8" × 1.1"

15 WATT — TMPW 15-J/-T

NEW under development

- Extended input 90 to 305 VAC
- EN 60335-1 (ho
- Chassis mount
- 5 to 48 VDC
- ??" × ??"

15 WATT — TMPS 15

NEW

- PCB mount
- Inc. EMC immunity
- EN 60335-1 (household)
- 3.3 to 48 VDC
- 2.06" × 1.07" × 0.93"

15 WATT — TPP 15-J

- Medical safety approval
- Chassis mount with JST connectors
- 3.3 to 48 VDC
- EN 60335-1
- 2.82" × 1.14" × 0.82"

15 WATT — TPP 15-D

- Medical safety approval
- PCB mount
- 3.3 to 48 VDC
- EN 60335-1
- 1.65" × 1.14" × 0.85"

4–24 WATT — TIW

- IP67 casing w. flying leads
- Fire safety for furniture
- EN 60335-1 (household)
- 3.3 to 24 VDC
- Mount in flush boxes

25 WATT — TMPW 25

- Extended input 90 to 305 VAC
- EN 60335-1 (household)
- PCB mount
- 5.1 to 24 VDC
- 2.07" × 1.08" × 0.9"

25 WATT — TMPW 25-J/-T

- Extended input 90 to 305 VAC
- EN 60335-1 (household)
- Chassis mount
- 5.1 to 24 VDC
- 3.48" × 1.08" × 0.95"

5–30 WATT — TMF

- Medical safety approval
- PCB mount
- Fully encapsulated
- Highest power density
- 5 to 24 VDC
- Single output

30 WATT — TPP 30-J

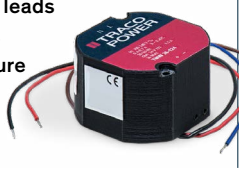
- Medical safety approval
- Chassis mount with JST connectors
- 3.3 to 48 VDC
- EN 60335-1
- JST connection
- 3.95" × 1.5" × 1.0"

30 WATT — TPP 30-D

- Medical safety approval
- PCB mount, throughole
- 3.3 to 48 VDC
- EN 60335-1
- 2.89" × 1.5" × 1.0"

24–36 WATT — TMW

- Medical safety approval
- IP68 casing w. flying leads
- Mount in flush boxes
- Fire safety for furniture
- EN 60335-1 (household)
- 5 to 24 VDC



40 WATT — TMPW 40

NEW under development

- Extended input 90 to 305 VAC
- EN 60335-1 (household)
- PCB mount
- 5 to 48 VDC
- 2.52" × 1.8" × 0.9"

40 WATT — TMPW 40-J/-T

NEW under development

- Extended input 90 to 305 VAC
- EN 60335-1 (household)
- Chassis mount
- 5 to 48 VDC
- 3.48" × 1.84" × 1.0"

40 WATT — TPP 40E-D

NEW

- Medical safety approval
- 5.0 to 48 VDC
- Protection class II
- PCB mount
- 3.2" × 2.2" × 1.2"

40 WATT — TPP 40E-J

NEW

- Medical safety approval
- 5.0 to 48 VDC (adj.)
- Protection class II
- JST connection
- 4.3" × 2.2" × 1.2"

7–50 WATT — TMG

- PCB mount
- Compact design
- 3.3 to 48 VDC
- Safety class II prepared

50 WATT — TMPW 50

- Extended input 90 to 305 VAC
- EN 60335-1 (household)
- PCB mount
- 12 to 24 VDC
- 2.92" × 1.85" × 0.9"

50 WATT — TMPW 50-J/-T

- Extended input 90 to 305 VAC
- EN 60335-1 (household)
- Chassis mount
- 12 to 24 VDC
- 3.81" × 1.85" × 1"

7–60 WATT — TMP

- PCB mount
- Industr. EMC immunity
- 3.3 to 48 VDC
- Single, dual, triple

15–60 WATT — TMP-C

- Chassis mount
- Ind. EMC immunity
- 5.0 to 48 VDC
- Single, dual, triple
- UL 508 approval
- DIN-Rail clip

20–40 WATT — TML

- PCB / chassis
- Single, dual, triple
- 3.3 to 24 VDC
- Protection class II for TML 40

24–60 WATT — TMM

- PCB mount
- Fully encapsulated
- Low profile
- 5.0 to 48 VDC

24–60 WATT — TMM-C

- Chassis mount
- Fully encapsulated
- Low profile
- 5.0 to 48 VDC
- Single / dual output
- UL 508 approval
- DIN-Rail clip

60 WATT — TMPW 60

NEW under development

- Extended input 90 to 305 VAC
- EN 60335-1 (household)
- PCB mount
- 12 to 48 VDC
- 2.92" × 1.85" × 0.9"

60 WATT TMPW 60-J/-T
NEW under development

- Extended input 90 to 305 VAC
- EN 60335-1 (household)
- Chassis mount
- 12 to 48 VDC
- 3.81" × 1.85" × 1"

65 WATT TPP 65E-D
NEW

- Medical safety approval
- 5.0 to 48 VDC
- Protection class II
- PCB mount
- 3.2" × 2.2" × 1.2"

65 WATT TPP 65E-J
NEW

- Medical safety approval
- 5.0 to 48 VDC (adj.)
- Protection class II
- JST connection
- 4.3" × 2.2" × 1.2"

80 WATT TMPW 80
NEW under development

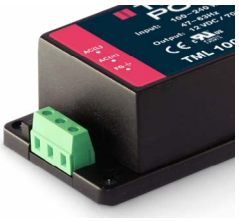
- Extended input 90 to 305 VAC
- EN 60335-1 (household)
- PCB mount
- 12 to 48 VDC
- 3.2" × 1.85" × 1.06"

80 WATT TMPW 80-J/-T
NEW under development

- Extended input 90 to 305 VAC
- EN 60335-1 (household)
- Chassis mount
- 12 to 48 VDC
- 4.0" × 1.9" × 1.1"

100 WATT TML 100C

- Chassis mount
- Active PFC
- 12 to 48 VDC
- 140 × 60 × 37 mm



Metal Enclosure and Open Frame Power Supplies 15 – 1000 Watt

- Excellent thermal management
- Universal input (85–264 VAC)
- EN 61000-3-2 compliant
- IEC/EN/UL 62368-1 approvals
- EN 55032 class B filter
- ErP ready

15–200 WATT TXM

- Cost optimized design
- Fanless operation
- 3.3 to 48 VDC adjust.

18–960 WATT TXLN

- 3.3 to 48 VDC adjust.
- Single, dual, triple
- < 200 Watt fanless
- Active PFC > 0.95
- Screw terminal block

15 WATT TPP 15A-J

- Medical safety approval
- Ultra compact
- 3.3 to 48 VDC
- EN 60335-1
- JST connection
- 2.6" × 1" × 0.73"

15 WATT TPP 15A-D

- Medical safety approval
- Ultra compact
- 3.3 to 48 VDC
- EN 60335-1
- PCB mount
- 1.5" × 1" × 0.82"

30 WATT TPI 30A-J

- Ultra compact
- Peak power up to 40 Watt
- 3.3 to 53 VDC
- JST connection
- 3.34" × 1.36" × 0.8"

30 WATT TPP 30A-J

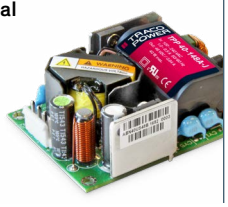
- Medical safety approval
- Ultra compact
- 3.3 to 48 VDC
- EN 60335-1
- JST connection
- 3.34" × 1.36" × 0.88"

30 WATT TPP 30A-D

- Medical safety approval
- Ultra compact
- 3.3 to 48 VDC
- EN 60335-1
- PCB mount
- 2.74" × 1.36" × 0.95"

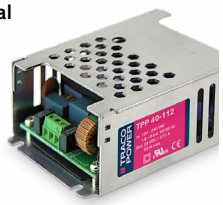
40 WATT TPP 40A

- Medical safety approval
- 5.0 to 48 VDC adjust.
- Protection class I & II
- JST connection
- 3" × 2" × 1.05"



40 WATT TPP 40

- Medical safety approval
- 5.0 to 24 VDC adjust.
- Single, dual, triple
- Protection class I & II
- 3.5" × 2.4" × 1.3" mm
- Opt.: DIN-rail, pin con.



50 WATT TPI 50A-J
NEW

- Ultra compact
- Peak power up to 70 Watt
- 5.0 to 48 VDC
- Protection class II
- JST connection
- 3" × 1.5" × 1.2"

60 WATT TXH 060

- 5.0 to 48 VDC (adj.)
- 3" × 1.7"
- Screw terminals

65 WATT TPI 65A-J

- Ultra compact
- Peak power up to 90 Watt
- 5.0 to 53 VDC
- Protection class I & II
- JST connection
- 3" × 2" × 1.1"

65 WATT ⊕ TPP 65A

- Medical safety approval
- 5.0 to 48 VDC (adj.)
- Protection class I & II
- JST connection
- 3" × 2" × 1.1"

65 WATT ⊕ TPP 65

- Medical safety approval
- 5.0 to 24 VDC (adj.)
- Single, dual, triple
- Protection class I & II
- 3.5" × 2.5" × 1.3"
- Opt.: DIN-rail, pin con.

100 WATT TOP 100

- 5.0 to 48 VDC (adj.)
- Protection class I & II
- Pin connection
- 4" × 2" × 1.2"

100 WATT TOP 100C

- 5.0 to 48 VDC (adj.)
- Protection class I & II
- Pin connection
- 4.5" × 2.5" × 1.5"

100 WATT TPI 100A

- 12 to 48 VDC (adj.)
- Protection class I & II
- 3" × 2" × 1.3"
- Opt.: Casing

100 WATT ⊕ TPP 100A

- Medical safety approval
- 12 to 48 VDC (adj.)
- Protection class I & II
- JST connection
- 3" × 2" × 1.3"

100 WATT ⊕ TPP 100

- Medical safety approval
- 12 to 48 VDC (adj.)
- Protection class I & II
- 3.6" × 2.4" × 1.5"
- Opt.: DIN-rail, pin con.

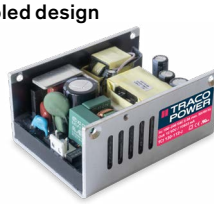
125 WATT TPI 125A-J

- Ultra compact
- Peak power up to 150 Watt
- 5.0 to 48 VDC
- Protection class II
- JST connection
- 3" × 2" × 1.2"

130 WATT TCI 130

NEW under development

- Unique conduction cooled design
- 12 to 48 VDC
- Protection class II
- OVC III
- JST connection
- 3" × 2.35" × 1.1"



150 WATT TPI 150A

- 12 to 48 VDC (adj.)
- Protection class II
- 4" × 2" × 1.3" (opt. casing)
- JST connection

150 WATT ⊕ TPP 150A

- Medical safety approval
- 12 to 48 VDC (adj.)
- Protection class I & II
- 4" × 2" × 1.3"

150 WATT ⊕ TPP 150

- Medical safety approval
- 12 to 48 VDC (adj.)
- Protection class I & II
- 4.6" × 2.4" × 1.9"
- Opt.: DIN-rail, pin con.

180 WATT TPI 180A-M

NEW

- Ultra compact design
- 12 to 48 VDC (adj.)
- Protection class I & II
- Contr. & monitor signals
- 3" × 2" × 1.3"

180 WATT TPI 180-M

NEW

- Ultra compact design
- 12 to 48 VDC (adj.)
- Protection class I & II
- Contr. & monitor signals
- 3.6" × 2.44" × 1.5"

180 WATT ⊕ TPP 180A-M

NEW

- Medical safety approval
- Ultra compact design
- 12 to 48 VDC (adj.)
- Protection class I & II
- Contr. & monitor signals
- 3" × 2" × 1.3"

180 WATT ⊕ TPP 180-M

NEW

- Medical safety approval
- Ultra compact design
- 12 to 48 VDC (adj.)
- Protection class I & II
- Contr. & monitor signals
- 3.6" × 2.44" × 1.5"

120–480 WATT TXH

- 12 to 48 VDC (adj.)
- Compact low profile
- Screw terminals

200 WATT TOP 200

- 12 to 48 VDC
- Protection class I & II
- Remote On/Off
- 5" × 3" × 1.3"

200 WATT TOP 200C

- 12 to 48 VDC
- Protection class I & II
- Remote On/Off
- 5.5" × 3.5" × 1.5"

240 WATT TCI 240

NEW under development

- Unique conduction cooled design
- 12 to 48 VDC
- Protection class II
- OVC III
- JST connection
- 4.1" × 2.46" × 1.54"

250 WATT ⊕ TPP 250A

NEW

- Medical safety approval
- Ultra compact design
- 12 to 48 VDC (adj.)
- Protection class I & II
- Contr. & monitor signals
- 4" × 2"

250 WATT ⊕ TPP 250A-FK
NEW

- Medical safety approval
- With Fan-Kit
- 12 to 48 VDC (adj.)
- Protection class I & II
- Contr. & monitor signals
- 4" × 2"

300 WATT TPI 300L-M
NEW

- Ultra compact design
- 12 to 48 VDC (adj.)
- Protection class I & II
- Contr. & monitor signals
- 4.6" × 2.44" × 1.3"

300 WATT TPI 300-M
NEW

- Ultra compact design
- 12 to 48 VDC (adj.)
- Protection class I & II
- Contr. & monitor signals
- 4.6" × 2.4" × 2.32"

300 WATT ⊕ TPP 300A-M
NEW

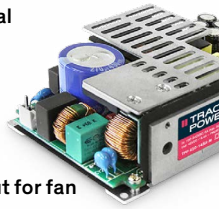
- Medical safety approval
- Ultra compact design
- 12 to 48 VDC (adj.)
- Protection class I & II
- Contr. & monitor signals
- 4" × 2" × 1.3"

300 WATT ⊕ TPP 300-M
NEW

- Medical safety approval
- Ultra compact design
- 12 to 48 VDC (adj.)
- Protection class I & II
- Contr. & monitor signals
- 4.6" × 2.4" × 2.32"

450 WATT ⊕ TPP 450BA

- Medical safety approval
- 12 to 53 VDC (adj.)
- Protection class I & II
- Contr. & monitor signals
- 5" × 3" × 1.6"
- 12 VDC auxiliary output for fan



450 WATT ⊕ TPP 450

- Medical safety approval
- 12 to 53 VDC (adj.)
- Protection class I & II
- Contr. & monitor signals
- 5.8" × 3.2" × 1.6"
- Fan

500 WATT TCI 500
NEW under development

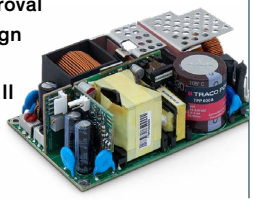
- Unique conduction cooled design
- 12 to 48 VDC
- Protection class II
- OVC III
- JST connection
- 5.1" × 3.26" × 2.45"

500 WATT TCI 500-U
NEW under development

- Unique conduction cooled design
- 12 to 48 VDC
- Protection class II
- OVC III
- JST connection
- 5.1" × 3.26" × 1.57"

600 WATT ⊕ TPP 600A
NEW

- Medical safety approval
- Ultra compact design
- 24 to 48 VDC (adj.)
- Protection class I & II
- Contr. & monitor signals
- 5" × 3" × 1.5"



600 WATT ⊕ TPP 600A-FK
NEW

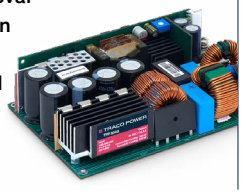
- Medical safety approval
- With Fan-Kit
- 24 to 48 VDC (adj.)
- Protection class I & II
- Contr. & monitor signals
- 5" × 3" × 2.5"

700 WATT TPI 700
NEW under development

- Compact design
- 12 to 48 VDC
- Protection class II
- JST connection
- 6.7" × 3.66" × 1.61"

850 WATT ⊕ TPP 850A
NEW

- Medical safety approval
- Ultra compact design
- 24 to 48 VDC (adj.)
- Protection class I & II
- Contr. & monitor signals
- 6" × 4" × 1.5"



850 WATT ⊕ TPP 850A-FK
NEW

- Medical safety approval
- Ultra compact design
- 24 to 48 VDC (adj.)
- Protection class I & II
- Contr. & monitor signals
- 6" × 4" × 2.5"

1000 WATT TPI 1000
NEW under development

- Compact design
- 12 to 48 VDC
- Protection class II
- OVC III
- Standby power
- Screw terminals
- 7.66" × 4.02" × 1.6"

Outdoor Power Supply

- Rugged power supplies for harsh oudoor environments
- Connection via waterproof I/O plug connectors
- Dust, water (incl. salt water), ice and oil resistant enclosure

120 WATT TEX 120

- IP67 and NEMA 4X rated
- 12 / 24 VDC output
- Ind. EMC immunity
- Extensive safety approval package (incl. UL 508 / ATEX IEC/EN 61010-1 and more)

DIN-Rail Power Supplies — 6 – 600 Watt

- Universal input (85–264 VAC)
- EN 55032 class B filter
- 3-Phase input for TSP 3P models
- International safety approval package including IEC/EN/UL 62368-1 and UL 508

15–60 WATT — TMP-C

- Fully encapsulated
- 5.0 to 48 VDC
- Single, dual, triple
- Low profile

15–150 WATT — TBL

- Low profile plastic casing
- 5.0 to 24 VDC
- NEC class II (up to 90 W)
- DC-OK signal

6–90 WATT — TBLC

- Low profile plastic casing
- 5.0 to 24 VDC
- High efficiency
- ErP-ready
- UL 1310 (NEC class II)
- EN 60335-1 (household)

24–240 WATT — TCL

- Slim plastic casing
- 5.0 to 48 VDC adjust.
- Screw or spring clamp connection
- DC-OK signal

30–120 WATT — TPC

- Robust plastic casing
- 5.0 to 48 VDC adjust.
- ErP-ready
- DC-OK signal

80–480 WATT — TIB

- Rugged metal casing
- Cost optimized design
- 12, 24, 48 VDC output
- High efficiency
- Active PFC
- Alternative side mounting

80–480 WATT — TIB-EX

- UL HazLoc Class I, division 2 and ATEX certification
- Rugged metal casing
- 12, 24, 48 VDC output
- Cost optimized design
- High efficiency
- Active PFC

50–480 WATT — TSPC

- Rugged metal casing
- 12 to 48 VDC adjust.
- IECEx / ATEX
- DC-OK signal

72–600 WATT — TSP

- Rugged metal casing
- 12 to 48 VDC adjust.
- ATEX (opt.) approval
- Entire control signals

180–600 WATT — TSP-WR

- Rugged metal casing
- 24 VDC adjust
- Wide input ranges 100/230–500 VAC
- Entire control signals

50–600 WATT — TIS

- Low profile metal casing
- 12 to 72 VDC adjust
- Int. function modules

UPS Systems and Function Modules (DIN-Rail and Industrial Cabinets) — 72 – 600 Watt

- System modules for Charging, Buffering, Powersharing, Redundancy, Oring or Freewheeling
- Modules with battery interfaces providing fully integrated fail save DC power solutions (UPS)
- Solutions for further upgrading TRACO POWER power supplies or function modules

UPS SYSTEM

240 WATT — TSPC 240UPS

- Power Supply with integrated Battery management module
- 24 VDC output, tightly reg. also in power fail mode
- Use with 12 VDC battery

BATTERY CONTROLLER MODULES

360 WATT TSP-BCMU360

- Universal module
- For 24 & 48 VDC, tightly reg. also in power fail mode
- Use with 12 VDC battery
- No remote link to PS
- Also for redundant operation

72–600 WATT TSP-BCM

- TSP Series access & module
- For 12, 24, 48 VDC models

240 WATT TIB-BCMU240

NEW under development

- Universal module
- For 24 VDC, tightly reg. also in power fail mode
- Use with 24 VDC battery
- No remote link to PS
- For redundant operation

BUFFER MODULE

600 WATT TSP-BFM

- Universal module
- For any 24 VDC source
- 120 Ws buffer energy
- No batteries
- No remote link to PS

REDUNDANCY MODULES

600 WATT TSPC-DCM

- Decoupling module (no signal outputs)
- For 5–28 VDC
- 2 inputs, 25 A max.
- No remote link to PS
- Rugged metal casing

240 WATT TPC-REM

- TPC series access modules
- Active current sharing
- For 24 or 48 VDC models
- 2 Inputs, 240 W
- DC-OK signal output
- Robust plastic casing

480 WATT TIB-REM480

NEW under development

- Redundancy module
- For 12–54 VDC
- 2 inputs, 20 A nom.
- >99% efficiency
- No remote link to PS
- Convection cooled

480 WATT TCL-REM

- Redundancy module
- For 5–60 VDC
- 2 × 5 A–10 A out max.
- No remote link to PS (no signal outputs)
- Slim plastic casing

360–600 WATT TSP-REM

- TSP series access modules
- Active current sharing
- For 24 VDC, 2 inputs
- Alarm signal
- Remote On/Off
- Rugged metal casing

TRACO POWER

Ref.: PP2023005
Order Code: PP-2023 GENERAL

TRACO POWER dedicated to design and production of high quality, state-of-the-art DC/DC & AC/DC power conversion products. Our mission is to provide optimal power supply solutions for specific applications with regard to performance, quality, cost and functionality.

TRACO POWER stocks an average of USD 25+ million in available finished goods inventory for immediate shipment through our distribution partners.

TRACO POWER offers extended product life-cycles, typically 10+ years, and our products are supported by a 3 or 5 year product warranty. We understand our customers require a high quality solution as well as a diverse product offering, availability from stock, extended life-cycles and a strong commitment to quality in the form of extended warranty to support their business.

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