

Конвертор, преобразователь traco power dc/dc, dc-dc, блок питания Минск тел.+375447584780
www.fotorele.net www.tiristor.by радиодетали, электронные компоненты
email minsk17@tut.by tel.+375 29 758 47 80 МТС

каталог, описание, технические, характеристики, datasheet, параметры, маркировка, габариты, фото, QR код

DC/DC Converters



AC/DC Power Supplies



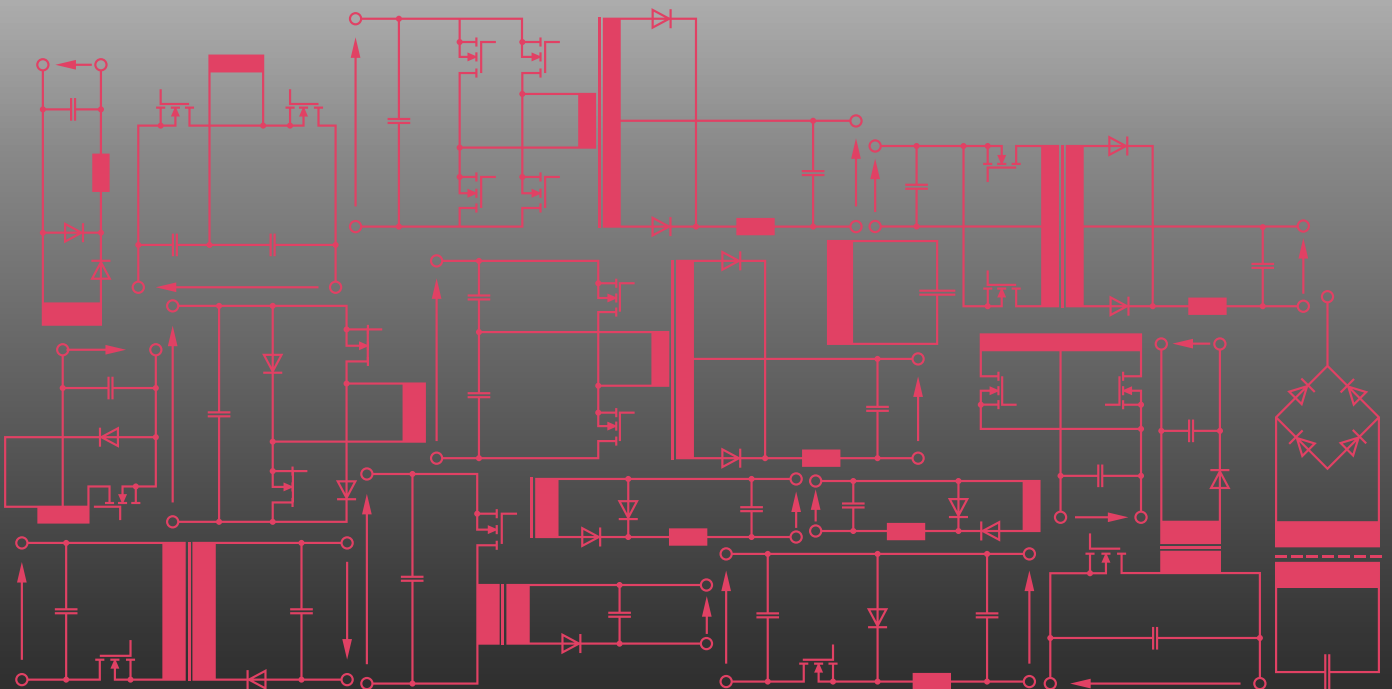
DIN-Rail



Product Portfolio 2017








DC/DC Converters

AC/DC Power Supplies







Non-Isolated Step Down DC/DC Converters (POL) 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 – +85°C

<p>TSR 0.5 0.5 AMP</p> <ul style="list-style-type: none"> • +Vin /+Vout • 1.5 to 15 Vout fixed • Input 4.75 – 32 VDC • LM78xx compatible • 11.5 x 7.6 x 10.2mm 	<p>TSR 1 1 AMP</p> <ul style="list-style-type: none"> • +Vin /+Vout • 1.5 to 15 Vout fixed • Input 4.6 – 36 VDC • LM78 compatible • 11.7 x 7.6 x 10 mm 	<p>TSN 1 1 AMP</p> <ul style="list-style-type: none"> • -Vin /-Vout • -5.0 to -15 Vout fixed • Input -7.0 – 32 VDC • LM79 compatible • 11.7 x 7.5 x 16.5mm 	
<p>TSRN 1 1 AMP</p> <ul style="list-style-type: none"> • +Vin /+Vout or -Vout • (±)1.5 to 15 Vout fixed • Input 4.6 – 42 VDC • 11.7 x 7.5 x 10.2mm 	<p>TSR 2 NEW 2 AMP</p> <ul style="list-style-type: none"> • +Vin /+Vout • 1.2 to 15 Vout fixed • Input 3.0 – 36 VDC • LM78 compatible • 14 x 7.5 x 10.1 mm 	<p>TSR 3 3 AMP</p> <ul style="list-style-type: none"> • +Vin /+Vout or -Vout • (±) 0.6 to 15 Vout adjust. • Input 2.5 – 30 VDC • Remote On/Off • Open frame 	
<p>TOS 6 - 30 AMP</p> <ul style="list-style-type: none"> • +Vin /+Vout • 0.75 to 5.5 Vout adjust. • Input 2.4 – 14 VDC • 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 – +85°C

<p>TSR 0.5SM 0.5 AMP</p> <ul style="list-style-type: none"> • +Vin /+Vout • 1.4 to 15.5 Vout adjust. • Input 4.75 – 32 VDC • Remote On/Off • 15.3 x 9.6 x 9.2mm 	<p>TSR 1SM 1 AMP</p> <ul style="list-style-type: none"> • +Vin /+Vout • 1.2 to 15 Vout fixed • Input 3.0 – 36 VDC • 15.2 x 9.3 x 7.6 mm 	<p>TSRN 1SM 1 AMP</p> <ul style="list-style-type: none"> • +Vin /+Vout or -Vout • (±)1.2 to 15.5 VDC adjust. • Input 3.0 – 42 VDC • Remote On/Off • 15.2 x 9.3 x 7.3 mm 	
<p>TOS 6 - 30 AMP</p> <ul style="list-style-type: none"> • +Vin /+Vout • 0.75 to 5.5 VDC adjust. • Input 2.4 – 14 VDC • Remote On/Off • Open frame 			

SMD DC/DC Converters 1 - 15 Watt

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

<p>TES 1 1 WATT</p> <ul style="list-style-type: none"> • 3.3 to 15 VDC (unregulated) • $\pm 10\%$ Input 5, 12, 24 VDC • 13.7 x 8.0 x 7.0 mm 	<p>TES 1V 1 WATT</p> <ul style="list-style-type: none"> • 3000 VDC I/O-isolation • 3.3 to 15 VDC (unregulated) • $\pm 10\%$ Input 5, 12, 24 VDC • 16.3 x 8.0 x 8.0 mm 	<p>TRN 1SM NEW 1 WATT</p> <ul style="list-style-type: none"> • 3.3 to 24 VDC • 2:1 Input 4.5 to 75 VDC • IEC/UL 60950-1 • 11.9 x 11.3 x 8.0 mm 
<p>TDN 1WISM NEW 1 WATT</p> <ul style="list-style-type: none"> • 3.3 to 24 VDC • 4:1 Input 4.5 to 75 VDC • Remote On/Off • 13.2 x 9.1 x 10.2 mm 	<p>TMR 1SM 1 WATT</p> <ul style="list-style-type: none"> • 5.0 to 24 VDC • 2:1 Input 4.5 to 75 VDC • 18.9 x 13.7 x 8.7 mm 	<p>TES 2H 2 WATT</p> <ul style="list-style-type: none"> • 3.3 to 15 VDC (unregulated) • $\pm 10\%$ Input 5, 12, 24 VDC • 16.3 x 9.3 x 8.9 mm 
<p>TMR 2WISM NEW 2 WATT</p> <ul style="list-style-type: none"> • 5.0 to 15 VDC • 4:1 Input 4.5 to 75 VDC • Remote On/Off • IEC/UL 60950-1 • 19.0 x 14.9 x 8.7 mm 	<p>TDR 2(WI)SM 2 WATT</p> <ul style="list-style-type: none"> • Epoxy over mold (washable) • 5.0 to 15 VDC • 2:1/4:1 Input 4.5 to 75 VDC • Remote On/Off • IEC/UL 60950-1 • 18.9 x 12.8 x 8.7 mm 	<p>TES 2N 2 WATT</p> <ul style="list-style-type: none"> • EN 55022 class A filter • 3.3 to 15 VDCxxx • 2:1 Input 4.5 to 75 VDC • IEC/UL 60950-1 • 24.0 x 13.7 x 9.3 mm 
<p>TES 2M 2 WATT</p> <ul style="list-style-type: none"> • 4 kVAC I/O-isolation • 5.0 to 15 VDC (unreg.) • $\pm 10\%$ Input 5, 12, 24 VDC • IEC/UL 60950-1, 60601-1 • 24.0 x 13.7 x 9.3 mm 	<p>TRN 3SM NEW 3 WATT</p> <ul style="list-style-type: none"> • 3.3 to 24 VDC • 2:1 Input 4.5 to 75 VDC • IEC/UL 60950-1 • 11.9 x 11.3 x 8.0 mm 	<p>TDN 3WISM NEW 3 WATT</p> <ul style="list-style-type: none"> • 3.3 to 24 VDC • 4:1 Input 4.5 to 75 VDC • Remote On/Off • Compact design • 13.2 x 9.1 x 10.2 mm 
<p>TMR 3WISM NEW 3 WATT</p> <ul style="list-style-type: none"> • 5.0 to 24 VDC • 4:1 Input 4.5 to 75 VDC • Remote On/Off • IEC/UL 60950-1 • 19.0 x 14.9 x 8.7 mm 	<p>TDR 3(WI)SM 3 WATT</p> <ul style="list-style-type: none"> • Epoxy over mold (washable) • 5.0 to 24 VDC • 2:1/4:1 Input 4.5 to 75 VDC • Remote On/Off • IEC/UL 60950-1 • 18.9 x 12.8 x 8.7 mm 	<p>THL 3 WISM 3 WATT</p> <ul style="list-style-type: none"> • EN 55022 class A filter • 3.3 to 24 VDC • 4:1 Input 9 to 75 VDC • Remote On/Off • IEC/UL 60950-1 • 24.0 x 13.7 x 8.0 mm 
<p>TDN 5WISM NEW 5 WATT</p> <ul style="list-style-type: none"> • 3.3 to 24 VDC • 4:1 Input 4.5 to 75 VDC • Remote On/Off • Compact design • 13.2 x 9.1 x 10.2 mm 	<p>THL 6WISM 6 WATT</p> <ul style="list-style-type: none"> • EN 55022 class A filter • 3.3 to 24 VDC • 4:1 Input 9 to 75 VDC • Remote On/Off • IEC/UL 60950-1 • 22.0 x 20.3 x 10.2 mm 	<p>TON 15(WI)SM 15 WATT</p> <ul style="list-style-type: none"> • EN 55022 class A filter • 3.3 to 15 VDC adjust. • 2:1/4:1 Inp. 9 to 75 VDC • Remote On/Off • IEC/UL 60950-1 • 27.9 x 23.9 mm 

SIP DC/DC Converters 1 - 9 Watt

- Single and dual output models (standard)
- Operating temperature -40 – +85°C
- 1500 VDC I/O-isolation (standard)
- IT approval to IEC/EN/UL 60950-1 (for regulated and high isolation converters)

<p>TMA 1 WATT</p> <ul style="list-style-type: none"> • Unregulated • 5.0 to 15 VDC • $\pm 10\%$ Input 5 to 24 VDC • 19.5 x 6.1 x 10.2mm 	<p>TME 1 WATT</p> <ul style="list-style-type: none"> • Unregulated • Compact design • 3.3 to 15 VDC (single only) • $\pm 10\%$ Input 3.3 to 24 VDC • 11.5 x 6.1 x 10.2mm 	<p>TRA 1 1 WATT</p> <ul style="list-style-type: none"> • Semi regulation (load) • 5.0 to 15 VDC • $\pm 10\%$ Input 5, 12, 24 VDC • 19.5 x 6.1 x 10.2mm 
<p>TMV 1 WATT</p> <ul style="list-style-type: none"> • Unregulated • 3000 VDC I/O-isolation • 5.0 to 15 VDC • $\pm 10\%$ Input 5 to 24 VDC • 19.5 x 6.1 x 10.2mm 	<p>TMV HI 1 WATT</p> <ul style="list-style-type: none"> • Unregulated • 5200 VDC I/O-isolation • 3.3 to 15 VDC • $\pm 10\%$ Input 5 to 24 VDC • 19.5 x 7.1 x 10.2mm 	<p>TMV-EN 1 WATT</p> <ul style="list-style-type: none"> • Unregulated • 3000 VDC reinforced I/O-isolation • 5.0 to 15 VDC • $\pm 10\%$ Input 5 to 12 VDC • 22.0 x 7.5 x 12.5mm 
<p>TRV 1 1 WATT</p> <ul style="list-style-type: none"> • Semi regulation (load) • 3000 VDC I/O-isolation • 5.0 to 15 VDC • $\pm 10\%$ Input 5 to 24 VDC • 19.5 x 6.1 x 10.2mm 	<p>TRN 1 NEW 1 WATT</p> <ul style="list-style-type: none"> • Regulated • 3.3 to 24 VDC • 2:1 Input 4.5 to 75 VDC • 11.9 x 7.7 x 11.0mm 	<p>TMR 1 1 WATT</p> <ul style="list-style-type: none"> • Regulated • 5.0 to 24 VDC • 2:1 Input 4.5 to 75 VDC • 17.0 x 7.6 x 11.0mm 
<p>TMV 2HI 2 WATT</p> <ul style="list-style-type: none"> • Unregulated • 5200 VDC I/O-isolation • 3.3 to 15 VDC • $\pm 10\%$ Input 5 to 24 VDC • 19.5 x 7.1 x 10.2mm 	<p>TMH 2 WATT</p> <ul style="list-style-type: none"> • Unregulated • 5.0 to 15 VDC • $\pm 10\%$ Input 5 to 24 VDC • 19.5 x 7.5 x 10.2mm 	<p>TMR 2E 2 WATT</p> <ul style="list-style-type: none"> • Regulated, cost optimized (I/O-isolation 1000 VDC) • 3.3 to 12 VDC (single only) • 2:1 Input 4.5 to 75 VDC • Remote On/Off • 21.8 x 9.3 x 11.2mm 
<p>TMR 2 2 WATT</p> <ul style="list-style-type: none"> • Regulated • 3.3 to 15 VDC • 2:1 Input 4.5 to 75 VDC • Remote On/Off • 21.8 x 9.2 x 11.1 mm 	<p>TMR 2WIN 2 WATT</p> <ul style="list-style-type: none"> • Regulated • 3.3 to 15 VDC • 4:1 Input 4.5 to 75 VDC • Remote On/Off • 21.8 x 9.3 x 11.2 mm 	<p>TRA 3 3 WATT</p> <ul style="list-style-type: none"> • Semi regulation (load) • 5.0 to 15 VDC • $\pm 10\%$ Input 5 to 24 VDC • 19.5 x 7.6 x 10.2mm 
<p>TRN 3 NEW 1 WATT</p> <ul style="list-style-type: none"> • Regulated • 3.3 to 24 VDC • 2:1 Input 4.5 to 75 VDC • 11.9 x 7.7 x 11.0mm 	<p>TMR 3(WI)E 3 WATT</p> <ul style="list-style-type: none"> • Regulated, cost optimized • 3.3 to 15 VDC • 2:1/4:1 Input 4.5 to 75 VDC • Remote On/Off (min. load required) • 21.8 x 9.3 x 11.2mm 	<p>TMR 3(WI) 3 WATT</p> <ul style="list-style-type: none"> • Regulated • 2:1/4:1 Input 4.5 to 75 VDC • 3.3 to 15 VDC • Remote On/Off • 21.8 x 9.2 x 11.2mm 

TMR 3HI

3 WATT

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



TMR 3WIR

NEW  **3 WATT**

- Railway approval
- Regulated
- 3000 VDC I/O-isolation
- 3.3 to 24 VDC
- 4:1 Input 9 to 160 VDC
- Low Ripple & Noise
- 21.8 x 9.6 x 11.2 mm



TMR 6(WI)

6 WATT

- Regulated
- 3.3 to 15 VDC
- 2:1/4:1 Input 4.5 to 75 VDC
- Remote On/Off
- 21.8 x 9.1 x 11.2 mm



TMR 6WIR

NEW  **6 WATT**

- Railway approval
- Regulated
- 3000 VDC I/O-isolation
- 3.3 to 24 VDC
- 4:1 Input 9 to 160 VDC
- Low Ripple & Noise
- 21.8 x 9.6 x 11.2 mm



TMR 9(WI)

NEW **9 WATT**

- Regulated
- 3.3 to 24 VDC
- 2:1/4:1 Input 9 to 160 VDC
- Remote On/Off
- 21.8 x 9.6 x 11.2 mm



High Performance DC/DC Converters 1 - 60 Watt

- Fully regulated outputs
- Single, dual (and triple) output models
- 1500 VDC I/O-isolation (standard)
- IT approval to IEC/EN/UL 60950-1
- Operating temperature -40 - +85°C
- Opt. heat-sink for most >10 Watt models
- Remote On/Off control

TDN 1WI

NEW **1 WATT**

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



TDL 2

NEW **2 WATT**

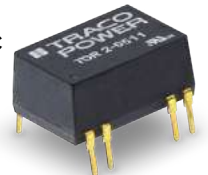
- Compact design
- 3.3 to 24 VDC
- 2:1 Input 4.5 to 75 VDC
- 14.0 x 14.0 x 8.0



TDR 2

2 WATT

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



TDR 2WI

2 WATT

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



TEL 2

2 WATT

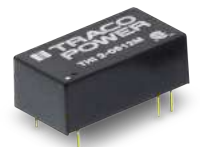
- 3.3 to 15 VDC
- 2:1 Input 4.5 to 75 VDC
- EN 55022 class A filter
- DIP-16 (23.8 x 13.7)



THI 2M

2 WATT

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



TDL 3

NEW **3 WATT**

- Compact design
- 3.3 to 24 VDC
- 2:1 Input 4.5 to 75 VDC
- 14.0 x 14.0 x 8.0



TDN 3WI

NEW **3 WATT**

- Compact design
- 3.3 to 24 VDC
- 4:1 Input 4.5 to 75 VDC
- 13.2 x 9.1 x 10.2



TDR 3

3 WATT

- Compact design
- Epoxy over mold
- 5.0 to 15 VDC
- 2:1 Input 4.5 to 75 VDC
- 18.9 x 12.8 x 8.7



TDR 3WI

3 WATT

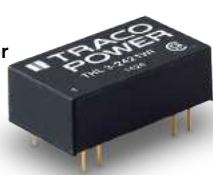
- Compact design
- Epoxy over mold
- 5.0 to 15 VDC
- 4:1 Input 4.5 to 75 VDC
- 18.9 x 12.8 x 8.7



THL 3WI

3 WATT

- 3.3 to 24 VDC
- 4:1 Input 9 to 75 VDC
- EN 55022 class A filter
- DIP-16 (23.8 x 13.7)



TEM 3N

3 WATT

- Cost down redesign
- 5.0 to 15 VDC
- ±10 % Input 5 to 24 VDC
- EN 55022 class A filter
- DIP-24 (32 x 20.3)



<p>TEL 3 3 WATT</p> <ul style="list-style-type: none"> • Cost optimized • 5.0 to 15 VDC • 2:1 Input 4.5 to 75 VDC • DIP-24 (32 x 20.3) 	<p>TEN 3N 3 WATT</p> <ul style="list-style-type: none"> • Cost down redesign • 3.3 to 24 VDC • 2:1 Input 4.5 to 75 VDC • EN 55022 class A filter • DIP-24 (32 x 20.3) 	<p>TEN 3WIN 3 WATT</p> <ul style="list-style-type: none"> • Cost down redesign • 3.3 to 24 VDC • 4:1 Input 9 to 75 VDC • EN 55022 class A filter • DIP-24 (32 x 20.3) 
<p>THI 3 3 WATT</p> <ul style="list-style-type: none"> • Regulated • 2 x MOOP • 5.0 to 15 VDC • ±10 % Input 5 to 24 VDC • EN 55022 class A filter • DIP-24 (32 x 20.3) 	<p>THP 3 3 WATT</p> <ul style="list-style-type: none"> • Regulated • 2 x MOOP • 5.0 to 15 VDC • 4:1 Input 9 to 160 VDC • EN 55022 class A filter • DIP-24 (32 x 20.3) 	<p>TDN 5WI NEW 5 WATT</p> <ul style="list-style-type: none"> • Highest power density • 3.3 to 24 VDC • 4:1 Input 4.5 to 75 VDC • 13.2 x 9.1 x 10.2 
<p>TVN 5WI 5 WATT</p> <ul style="list-style-type: none"> • Ultra low ripple & noise • 3.3 to 48 VDC • 4:1 Input 9 to 75 VDC • EN 55022 class B filter • Case pin • DIP-24 (32 x 20.3) 	<p>TEL 5 5 WATT</p> <ul style="list-style-type: none"> • Cost optimized • 3.3 to 15 VDC • 2:1 Input 9 to 36 VDC • DIP-24 (32 x 20.3) 	<p>TEN 6N 6 WATT</p> <ul style="list-style-type: none"> • 3.3 to 24 VDC • 2:1 Input 9 to 75 VDC • EN 55022 class A filter • DIP-24 (32 x 20.3) 
<p>TEN 6WIN 6 WATT</p> <ul style="list-style-type: none"> • 3.3 to 24 VDC • 4:1 Input 9 to 75 VDC • EN 55022 class A filter • DIP-24 (32 x 20.3) 	<p>TEN 6WIN-HI 6 WATT</p> <ul style="list-style-type: none"> • 3000 VDC I/O-isolation • 3.3 to 24 VDC • 4:1 Input 9 to 75 VDC • EN 55022 class A filter • DIP-24 (32 x 20.3) 	<p>TEL 8 NEW 8 WATT</p> <ul style="list-style-type: none"> • 3.3 to 24 VDC • 2:1 Input 9 to 75 VDC • EN 55022 class A filter • DIP-16 (24.1 x 14) 
<p>TEL 8WI NEW 8 WATT</p> <ul style="list-style-type: none"> • 3.3 to 24 VDC • 4:1 Input 9 to 75 VDC • EN 55022 class A filter • DIP-16 (24.1 x 14) 	<p>TEN 8 8 WATT</p> <ul style="list-style-type: none"> • 3.3 to 15 VDC • 2:1 Input 9 to 75 VDC • DIP-24 (32 x 20.3) 	<p>TEN 8WI 8 WATT</p> <ul style="list-style-type: none"> • Railway approval • 3.3 to 15 VDC • 4:1 Input 9 to 160 VDC • Increased EMC immunity • DIP-24 (32 x 20.3) 
<p>THD 10N 10 WATT</p> <ul style="list-style-type: none"> • 3.3 to 15 VDC • 2:1 Input 9 to 75 VDC • EN 55022 class A filter • DIP-24 (32 x 20.3) 	<p>THD 10WIN 10 WATT</p> <ul style="list-style-type: none"> • 3.3 to 24 VDC • 4:1 Input 9 to 75 VDC • EN 55022 class A filter • DIP-24 (32 x 20.3) 	<p>THL 10 10 WATT</p> <ul style="list-style-type: none"> • 3.3 to 15 VDC • 2:1 Input 9 to 75 VDC • EN 55022 class A filter • 1" x 1" 
<p>THL 10WI 10 WATT</p> <ul style="list-style-type: none"> • 3.3 to 24 VDC • 4:1 Input 9 to 75 VDC • EN 55022 class A filter • 1" x 1" 	<p>THD 12 12 WATT</p> <ul style="list-style-type: none"> • 2.5 to 15 VDC • 2:1 Input 9 to 75 VDC • DIP-24 (32 x 20.3) 	<p>THD 12WI 12 WATT</p> <ul style="list-style-type: none"> • 3.3 to 15 VDC • 4:1 Input 9 to 75 VDC • EN 55022 class A filter • DIP-24 (32 x 20.3) 

THD 15N

15 WATT

- 3.3 to 15 VDC
- 2:1 Input 9 to 75 VDC
- EN 55022 class A filter
- DIP-24 (32 x 20.3)



THD 15WIN

15 WATT

- 3.3 to 15 VDC
- 4:1 Input 9 to 75 VDC
- EN 55022 class A filter
- DIP-24 (32 x 20.3)



TEL 15

15 WATT

- Cost optimized
- 3.3 to 15 VDC
- 2:1 Input 9 to 75 VDC
- 2" x 1"



TON 15(WI)

15 WATT

- 3.3 to 15 VDC adjust.
- 2:1/4:1 Inp. 9 to 75 VDC
- EN 55022 class A filter
- 27.9 x 23.9



THN 15

15 WATT

- 3.3 to 48 VDC adjust.
- 2:1 Input 9 to 75 VDC
- 1" x 1"



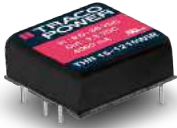
THN 15WI

15 WATT

- 3.3 to 48 VDC adjust.
- 4:1 Input 9 to 75 VDC
- 1" x 1"

THN 15WIR **NEW**  15 WATT

- Railway approval
- EN 55022 class A filter
- 3.3 to 15 VDC adjust.
- 4:1 Input 9 to 160 VDC
- Increased EMC immunity
- 1" x 1"



THN 20

20 WATT

- 3.3 to 48 VDC adjust.
- 2:1 Input 9 to 75 VDC
- EN 55022 class A filter
- 1" x 1"



THN 20WI

20 WATT

- 3.3 to 48 VDC adjust.
- 4:1 Input 9 to 75 VDC
- EN 55022 class A filter
- 1" x 1"



THL 20WI

20 WATT

- 3.3 to 24 VDC adjust.
- 4:1 Input 9 to 75 VDC
- 1" x 1"



TEN 20

20 WATT

- 3.3 to 15 VDC
- 2:1 Input 9 to 75 VDC
- EN 55022 class A filter
- 2" x 1"



TEN 20WIN

20 WATT

- 3.3 to 15 VDC adjust.
- 4:1 Input 9 to 75 VDC
- 2" x 1"

TEN 20WIR  20 WATT

- Railway approval
- EN 55022 class A filter
- 3.3 to 15 VDC adjust.
- 4:1 Input 9 to 160 VDC
- Increased EMC immunity
- 2" x 1"



TMDC 20

20 WATT

- Chassis/DIN-rail
- Screw terminal connection
- 5.1 to 48 VDC
- 4:1 Input 9 to 75 VDC
- EN 55022 class A filter
- 96 x 54 x 23.3 mm

TEQ 20WIR **NEW**  40 WATT

- Railway approval
- EN 55022 class B filter
- 3.3 to 15 VDC adjust.
- 4:1 Input 9 to 160 VDC
- Increased EMC immunity
- Temp. range -40 to 90°C



THL 25

25 WATT

- 3.3 to 15 VDC adjust.
- 2:1 Input 9 to 75 VDC
- 1" x 1"



THL 25WI

25 WATT

- 3.3 to 15 VDC adjust.
- 4:1 Input 9 to 75 VDC
- 1" x 1"



TEN 30

30 WATT

- 1.5 to 15 VDC adjust.
- 2:1 Input 9 to 75 VDC
- 2" x 1"



TEN 30WIN

30 WATT

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



THN 30

30 WATT

- 3.3 to 24 VDC adjust.
- 2:1 Input 9 to 75 VDC
- 1" x 1"















THN 30WI

30 WATT







- 3.3 to 24 VDC adjust.
- 4:1 Input 9 to 75 VDC
- 1" x 1"



<p>TEN 40</p> <p>40 WATT</p> <ul style="list-style-type: none"> • With triple output models • 3.3 to 15 VDC adjust. • 2:1 Input 9 to 75 VDC • Sense lines • 2" x 2" 	<p>TEN 40WI</p> <p>40 WATT</p> <ul style="list-style-type: none"> • 3.3 to 15 VDC adjust. • 4:1 Input 9 to 75 VDC • Sense lines • 2" x 2" 	<p>TEN 40N</p> <p>40 WATT</p> <ul style="list-style-type: none"> • 3.3 to 24 VDC adjust. • 2:1 Input 9 to 75 VDC • 2" x 1" 
<p>TEN 40WIN</p> <p>40 WATT</p> <ul style="list-style-type: none"> • 3.3 to 24 VDC adjust. • 4:1 Input 9 to 75 VDC • 2" x 1" 	<p>TEN 40WIR</p> <p>40 WATT</p> <ul style="list-style-type: none"> • Railway approval • 3.3 to 48 VDC adjust. • 4:1 Input 9 to 160 VDC • Increased EMC immunity • 2" x 1" 	<p>TEQ 40WIR NEW</p> <p>40 WATT</p> <ul style="list-style-type: none"> • Railway approval • EN 55022 class B filter • 3.3 to 48 VDC adjust. • 4:1 Input 9 to 160 VDC • Increased EMC immunity 
<p>TMDC 40</p> <p>40 WATT</p> <ul style="list-style-type: none"> • Chassis/DIN-rail • Screw terminal connection • 5.1 to 48 VDC • 4:1 Input 9 to 75 VDC • EN 55022 class A filter • 112 x 64 x 25.6 	<p>TEN 50</p> <p>50 WATT</p> <ul style="list-style-type: none"> • 3.3 to 24 VDC adjust. • 2:1 Input 9 to 75 VDC • 2" x 1" 	<p>TEN 50WI</p> <p>50 WATT</p> <ul style="list-style-type: none"> • 3.3 to 24 VDC adjust. • 4:1 Input 9 to 75 VDC • (single output models only) • 2" x 1" 
<p>TEN 60N</p> <p>60 WATT</p> <ul style="list-style-type: none"> • 5.0 to 24 VDC adjust. • 2:1 Input 9 to 75 VDC • 2" x 1" 	<p>TEN 60WIN</p> <p>60 WATT</p> <ul style="list-style-type: none"> • 5.0 to 24 VDC adjust. • 4:1 Input 9 to 75 VDC • 2" x 1" 	<p>TMDC 60</p> <p>60 WATT</p> <ul style="list-style-type: none"> • Chassis/DIN-rail • Screw terminal connection • 5.1 to 48 VDC • 4:1 Input 9 to 75 VDC • EN 55022 class A filter • 112 x 68 x 38 

High Power DC/DC Converters 75 - 300 Watt


- Excellent thermal management
- EN 55022 class A (chassis models)
- Increased EMC immunity
- Entire protective structure
- Control functions
- Wide selection of options

<p>TEP 75WI</p> <p>75 WATT</p> <ul style="list-style-type: none"> • Railway approval • 5.0 to 48 VDC adjust. • 4:1 Input 9 to 160 VDC • PCB / chassis / DIN-rail • 2.4" x 2.3" x 0.5" 	<p>TEP 100</p> <p>100 WATT</p> <ul style="list-style-type: none"> • 3.3 to 48 VDC adjust. • 2:1 Input 9 to 75 VDC • PCB mount • 2.4" x 2.3" x 0.5" 	<p>TEP 100WIR</p> <p>100 WATT</p> <ul style="list-style-type: none"> • Railway approval • 12 to 48 VDC adjust. • 4:1 Input 8.5 to 160 VDC • PCB / chassis / DIN-rail • 2.4" x 2.3" x 0.5" 
<p>TEQ 100WIR</p> <p>100 WATT</p> <ul style="list-style-type: none"> • Railway approval • 85°C full load operation • 12 to 48 VDC adjust. • 4:1 Input 8.5 to 160 VDC • UL 508 approval • 3" x 4" x 3.5" 	<p>TEP 150WI</p> <p>150 WATT</p> <ul style="list-style-type: none"> • CV / CC for battery charging • Railway approval • 12 to 48 VDC adjust. • 4:1 Input 9 to 160 VDC • EN 55022 class B (opt.) • 90 x 65 x 38 mm 	<p>TEP 160</p> <p>160 WATT</p> <ul style="list-style-type: none"> • 12 to 48 VDC adjust. • 2:1 Input 16.5 to 75 VDC • PCB mount • 2.4" x 2.3" x 0.5" 

TEP 160WIR  **160 WATT**

- Railway approval
- 12 to 48 VDC adust.
- 4:1 Input 8.5 to 160 VDC
- PCB mount
- 2.4" x 2.3" x 0.5"



TEQ 160WIR  **160 WATT**

- Railway approval
- 75°C full load operation
- 12 to 48 VDC adust.
- 4:1 Input 18 to 160 VDC
- UL 508 approval
- 3" x 4" x 3.5"



TEP 200WIR  **200 WATT**

- Railway approval
- 12 to 48 VDC adust.
- 4:1 Input 8.5 to 160 VDC
- Chassis mount
- 2.4" x 3.4" x 1.5"



TEQ 200WIR  **200 WATT**

- Railway approval
- 70°C full load operation
- 12 to 48 VDC adust.
- 4:1 Input 18 to 160 VDC
- UL 508 approval
- 3" x 4" x 3.5"



TEQ 300WIR **NEW**  **300 WATT**

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



TZL **60 - 300 WATT**

- Compact metal casing
- 12 / 24 VDC
- 2:1 Input 18 to 72 VDC
- EN 55022 class B filter



Medical/Reinforced I/O-Isolation  **DC/DC Converters 2 - 30 Watt**

- Certification to IEC/ES 60601-1 3rd edition for 2 x MOPP
- I/O isolation 5000 VACrms rated for 250 VACrms working voltage
- Risk management file acc. ISO 14971
- Quality to ISO 13485, IPC-A-610 level 3
- 5-year product warranty

TIM 2 **NEW** **2 WATT**

- 5.0 to 24 VDC
- 2:1 Input 4.5 to 75 VDC low range 4.5-12 VDC
- DIP-16 (24.3 x 14.4)



TIM 2SM **NEW** **2.5 WATT**

- 5.0 to 24 VDC
- 2:1 Input 4.5 to 75 VDC low range 4.5-12 VDC
- SMD-16 (24.3 x 14.4)



THM 3(WI) **3 WATT**

- 3.3 to 24 VDC
- 2:1 or 4:1 Input 4.5 to 75 VDC
- EN 55022 class A filter
- DIP-24 (32 x 20.3)



TIM 3.5 **NEW** **3.5 WATT**

- 5.0 to 24 VDC
- 2:1 Input 4.5 to 75 VDC low range 4.5-12 VDC
- DIP-16 (24.3 x 14.4)



TIM 3.5SM **NEW** **3.5 WATT**

- 5.0 to 24 VDC
- 2:1 Input 4.5 to 75 VDC low range 4.5-12 VDC
- SMD-16 (24.3 x 14.4)



THM 6(WI) **6 WATT**

- 3.3 to 24 VDC
- 2:1 or 4:1 Input 4.5 to 75 VDC
- EN 55022 class A filter
- DIP-24 (32 x 20.3)



THM 10(WI) **10 WATT**

- 3.3 to 24 VDC
- 2:1 or 4:1 Input 4.5 to 75 VDC
- EN 55022 class A filter
- DIP-24 (32 x 20.3)



THM 15WI **NEW** **15 WATT**

- 3.3 to 24 VDC
- 4:1 Input 9 to 75 VDC
- EN 55022 class A filter
- 1.6" x 1"



THM 20WI **NEW** **20 WATT**

- 3.3 to 24 VDC
- 4:1 Input 9 to 75 VDC
- EN 55022 class A filter
- 1.6" x 1"







THM 30WI **NEW** **30 WATT**

- 5.0 to 24 VDC
- 4:1 Input 9 to 75 VDC
- 2" x 1"





Industrial DIN-Rail Mount DC/DC Converters 20 - 60 Watt

- IEC/EN/UL 60950-1 approvals
- Increased EMC immunity
- Operating temperature -25 – +65°C




<p>TCL-DC 24 - 60 WATT</p> <ul style="list-style-type: none"> • Slim plastic casing • UL 508 approval • 5.0 to 24 VDC • 4:1 Input 9.5 to 75 VDC • EN 55022 class B filter • 75 x 100 x 27/45 	<p>TMDC 20 20 WATT</p> <ul style="list-style-type: none"> • Low profile casing • 5.1 to 48 VDC • 4:1 Input 9 to 75 VDC • EN 55022 class A filter • 96 x 54 x 23.3 	<p>TMDC 40 40 WATT</p> <ul style="list-style-type: none"> • Low profile casing • 5.1 to 48 VDC • 4:1 Input 9 to 75 VDC • EN 55022 class A filter • 112 x 64 x 25.6 	
<p>TMDC 60 60 WATT</p> <ul style="list-style-type: none"> • Low profile casing • 5.1 to 48 VDC • 4:1 Input 9 to 75 VDC • EN 55022 class A filter • 112 x 68 x 38 			

High Voltage DC/DC Converters up to 2 kV

- Remote voltage programming 0 - 100%
- Positive or negative polarity
- Very low output ripple
- Excellent output stability
- Low temperature drift








<p>THV 3 WATT</p> <ul style="list-style-type: none"> • Slim SIP Package • Input 0-2000 VDC • Output 12 VDC • Remote On/Off • Opt. flying lead connect. • 80/110 x 12 x 20 	<p>PHV 5 WATT</p> <ul style="list-style-type: none"> • Flat DIP package • Input 0-2000 VDC • Output 12 VDC • Excellent voltage stability • 60 x 40 x 15/20 mm 
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Industrial High Power Converters up to 22 kW

<p>TSC 150 - 5000 WATT</p> <ul style="list-style-type: none"> • 19" plug-in /chassis / DIN • 5 to 400 VDC • 2:1 Input 10 to 800 VDC • Entire protection circuit • Individual power solutions 	<p>TSC 19 5 kW - 22 kW</p> <ul style="list-style-type: none"> • 19" sub rack • 5 to 800 VDC • 2:1 Input 40 to 800 VDC • Entire protection circuit • Individual power solutions 	<p>TSD 200 VA - 30 kVA</p> <ul style="list-style-type: none"> • 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 
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

Medical Power Supplies 5 - 150 Watt 








- Certification to IEC/ES 60601-1 3rd edition for 2 x MOPP
- Risk management file acc. ISO 14971
- Quality to ISO 13485, IPC-A-610 level 3
- Low leakage current
- 5-year product warranty

<p>TMF NEW 5 - 30 WATT</p> <ul style="list-style-type: none"> • PCB / mount • Fully encapsulated • Highest power density • 5.0 to 48 VDC • Single/dual output 	<p>TPP 15 NEW 15 WATT</p> <ul style="list-style-type: none"> • Open frame • Ultra compact • 3.3 to 48 VDC • Pin connection • 66 x 25 x 19 mm 	<p>TPP 30 NEW 30 WATT</p> <ul style="list-style-type: none"> • Open frame • Ultra compact • 3.3 to 48 VDC • Pin connection • 85 x 35 x 23 mm 
<p>TPP 40 40 WATT</p> <ul style="list-style-type: none"> • High EMC performance • 5.0 to 24 VDC adjust. • Protection class I & II • 91 x 62 x 39 mm • Opt.: DIN-rail, open frame, Pin connection... 	<p>TPP 65 65 WATT</p> <ul style="list-style-type: none"> • High EMC performance • 5.0 to 24 VDC adjust. • Protection class I & II • 91 x 62 x 39 mm • Opt.: DIN-rail, open frame, Pin connection... 	<p>TPP 100 100 WATT</p> <ul style="list-style-type: none"> • High EMC performance • 12 to 48 VDC adjust. • Protection class I & II • 91 x 62 x 39 mm • Opt.: DIN-rail, open frame, Pin connection... 
<p>TPP 150 150 WATT</p> <ul style="list-style-type: none"> • High EMC performance • 12 to 48 VDC adjust. • Protection class I & II • 117 x 62 x 49 mm • Opt.: DIN-rail, open frame, Pin connection... 		

Encapsulated AC/DC Power Modules 2 - 100 Watt










- Universal input
- EN 55022 class B filter
- IEC/EN/UL 60950-1 approvals
- Start-up temperature -40°C for TMM and TMG series

<p>TMSB 2 2 WATT</p> <ul style="list-style-type: none"> • Standby module for ErP directive • EN 60335-1 (household) • Const. power, no current limit • 8 to 24 VDC • 3.3 or 5.0 VDC aux. output • 36.5 x 28.4 x 15 mm 	<p>TMPS 03 3 WATT</p> <ul style="list-style-type: none"> • PCB mount • EN 60335-1 (household) • 3.3 to 24 VDC • ErP-ready • 1" x 1" (h = 15.3 mm) 	<p>TMPS 05 5 WATT</p> <ul style="list-style-type: none"> • PCB mount • EN 60335-1 (household) • 3.3 to 24 VDC • ErP-ready • 1" x 1" (h = 15.3 mm) 
<p>TMPM 4 - 10 WATT</p> <ul style="list-style-type: none"> • PCB mount • Ind. EMC immunity • 3.3 to 24 VDC • ErP-ready • Compact design 	<p>TMLM 4 - 20 WATT</p> <ul style="list-style-type: none"> • PCB mount • 3.3 to 24 VDC • Single, dual • Compact design 	<p>TIW  4 - 24 WATT</p> <ul style="list-style-type: none"> • IP67 casing w. flying leads • Fire safety for furniture • EN 60335-1 (household) • 3.3 to 24 VDC • ErP-ready • Mount. in flash boxes 

<p>TMG NEW 7 - 50 WATT</p> <ul style="list-style-type: none"> • PCB mount • Compact design • 3.3 to 48 VDC • ErP-ready 	<p>TMP 7 - 60 WATT</p> <ul style="list-style-type: none"> • PCB mount • Industr. EMC immunity • 3.3 to 48 VDC • Single, dual, triple 	<p>TMP-C 15 - 60 WATT</p> <ul style="list-style-type: none"> • Chassis mount • Ind. EMC immunity • 3.3 to 48 VDC • Single, dual, triple • UL 508 approval 		
<p>TML 20 - 40 WATT</p> <ul style="list-style-type: none"> • PCB /chassis • Single, dual, triple • 3.3 to 24 VDC 	<p>TMM 24 - 60 WATT</p> <ul style="list-style-type: none"> • PCB / mount • Fully encapsulated • Low profile • 5.0 to 48 VDC 	<p>TMM-C 24 - 60 WATT</p> <ul style="list-style-type: none"> • Chassis mount • Fully encapsulated • 5.0 to 48 VDC • Low profile • Single / dual output • UL 508 approval 		
<p>TML 100C 100 WATT</p> <ul style="list-style-type: none"> • Chassis mount • Active PFC • 12 to 48 VDC • 140 x 62 x 37 				

Metal Enclosure and Open Frame Power Supplies
15 - 1000 Watt

- Excellent thermal management
- Universal input
- EN 61000-3-2 compliant
- IEC/EN/UL 60950-1 approvals
- EN 55022 class B filter

<p>TXM 15 - 150 WATT</p> <ul style="list-style-type: none"> • Cost optimized design • 3.3 to 48 VDC adjust. • ErP-ready 	<p>TXL 15 - 1000 WATT</p> <ul style="list-style-type: none"> • 3.3 to 48 VDC adjust. • Single, dual, triple 	<p>TXH 060 NEW 60 WATT</p> <ul style="list-style-type: none"> • 5.0 to 48 VDC • ErP-ready • 3" x 1.7" 
<p>TOP 100 100 WATT</p> <ul style="list-style-type: none"> • 5.0 to 48 VDC • Protection class I & II • Adjustable output • Optional with casing • 2" x 4" 	<p>TPI 100 100 WATT</p> <ul style="list-style-type: none"> • Highest power density • 12 to 48 VDC • ErP-ready • Protection class I & II • Adjustable Output • 2" x 3" (opt. casing) 	<p>TPI 150 100 WATT</p> <ul style="list-style-type: none"> • Highest power density • 12 to 48 VDC • ErP-ready • Protection class I & II • Adjustable output • 2" x 4" (opt. casing) 
<p>TXH 120 - 480 WATT</p> <ul style="list-style-type: none"> • 12 to 48 VDC adjust. • Compact low profile 	<p>TOP 200 200 WATT</p> <ul style="list-style-type: none"> • 12 to 48 VDC • Protection class I & II • Remote On/Off • Optional with casing • 3" x 5" 	<p>TXH 600 600 WATT</p> <ul style="list-style-type: none"> • Universal power supply • Active PFC • 12 to 54 VDC adjust. • Ind. EMC immunity • IEC-C13 line socket • Contr. & monitor signals 

Outdoor Power Supply

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

TEX

120 WATT

- 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 15 - 960 Watt

- Universal input
- EN 55022 class B filter
- International safety approval package including IEC/EN/UL 60950-1 and UL 508

TMP-C

15 - 60 WATT

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



TBL

15 - 150 WATT

- Low profile plastic casing
- 5.0 to 24 VDC
- NEC class II (up to 90 W)
- EN 60335-1 (household)



TBLC

NEW

6 - 90 WATT

- Low profile plastic casing
- 5.0 to 24 VDC
- High efficiency
- ErP-ready
- UL1310 (NEC class II)
- EN 60335-1 (household)



TCL

24 - 240 WATT

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



TPC

30 - 120 WATT

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



TIB

NEW

80 - 480 WATT

- Rugged metal casing
- Cost optimised design
- High efficiency
- Active power factor corr.
- Alternative side mounting



TSPC

50 - 480 WATT

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



TSP

72 - 600 WATT

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



TSP-WR

180 - 600 WATT

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












TIS

50 - 600 WATT

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



UPS Systems and Function Modules

<p>UPS System</p>	<p>TSPC 240UPS 240 WATT</p> <ul style="list-style-type: none"> • Power Supply with integrated Battery management module • 24 VDC output, tightly reg. also in power fail mode • Use with 12 VDC battery 	
<p>Battery Controller Modules</p>	<p>TSP-BCMU360 360 WATT</p> <ul style="list-style-type: none"> • 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 	<p>TSP-BCM 12 - 48 VDC</p> <ul style="list-style-type: none"> • TSP Series access. module • For 12, 24, 48 VDC models 
<p>Buffer Modul</p>	<p>TSP-BFM 600 WATT</p> <ul style="list-style-type: none"> • Universal module • For any 24 VDC source • 120 Ws buffer energy • No batteries • No remote link to PS 	
<p>Battery Pack</p>	<p>TSP-BAT</p> <ul style="list-style-type: none"> • Battery packs • High quality lead acid • 12 VDC/7.2 Ah • 24 VDC 1.2 to 12 Ah 	
<p>Decoupling, Redundancy and Current Share Modules</p>	<p>TSPC-DCM 600 WATT</p> <ul style="list-style-type: none"> • Decouplin module (no signal outputs) • For 5 - 28 VDC • 2 inputs, 25 A max. • No remote link to PS • Rugged metal casing 	<p>TPC-REM 240 WATT</p> <ul style="list-style-type: none"> • TPC series access modules • Active current sharing • For 24 or 48 VDC models • 2 Inputs, 240 W • DC-OK signal output • Robust plastic casing 
	<p>TCL-REM 480 WATT</p> <ul style="list-style-type: none"> • Redundancy module • For 5 - 60 VDC • 2 x 5 A - 10 A out max. • No remote link to PS (no signal outputs) • Slim plastic casing 	<p>TSP-REM 360 - 600 WATT</p> <ul style="list-style-type: none"> • TSP series access modules • Active current sharing • For 24 VDC, 2 inputs • Alarm signal • Remote On/Off • Rugged metal casing 

TRACO POWER

Solutions

Risk **Standards**
Requirement Audit
Compliance
Performance Regulations
Safety Rules

With our design house

TRACO POWER SOLUTIONS Ltd.

we have the facility to expeditiously design customised power supplies and to manufacture prototypes and pre-series.

Our design engineers have access to fully equipped and modern test laboratories. It gives us the opportunity to provide solutions adjusted to special demands in terms of compliance, cost, performance and functionality. We initiate high volume production for effective pricing with our qualified manufacturing facilities in Asia while we supervise the production quality.

Our design competence to meet exigence regarding:

- Safety requirements
- EMI compliance
- Electrical specifications
- Form factor, connection, fastening
- Mechanical robustness
- Thermal resistance
- Control features and functionality (logic boards)
- Cost /performance optimisation

Our services:

- Research & design
- Commercial and technical support
- Pre-compliance safety and EMI test.
- Mechanical and thermodynamic tests
- HALT and performance test
- 100% functional testing and burn-in
- Project attendance with external test and certification authorities
- Prototyping and volume production of custom designed power supplies
- Production of OEM and white label power supplies

www.tracopower-solutions.com



TRACO POWER – dedicated to design and production of high quality, state-of-the-art AC/DC & DC/DC power conversion products for Industrial, Medical & Railway applications. 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 13+ 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.

International Office

Traco Electronic AG
Sihlbruggstrasse 111
6340 Baar
Switzerland

P +41 43 311 45 11
F +41 43 311 45 45
info@traco.ch

German Office

Traco Electronic GmbH
Oskar-Messter-Str. 20a
85737 Ismaning/München
Germany

P +49 89 96 11 82-0
F +49 89 96 11 82-20
info@traco-electronic.de

North America Office

Traco Power North America, Inc.
2025 Gateway Place #330
San Jose, CA 95110
USA

P +1 (408) 916-4570
F +1 (408) 916-4571
salesusa@tracopower.com

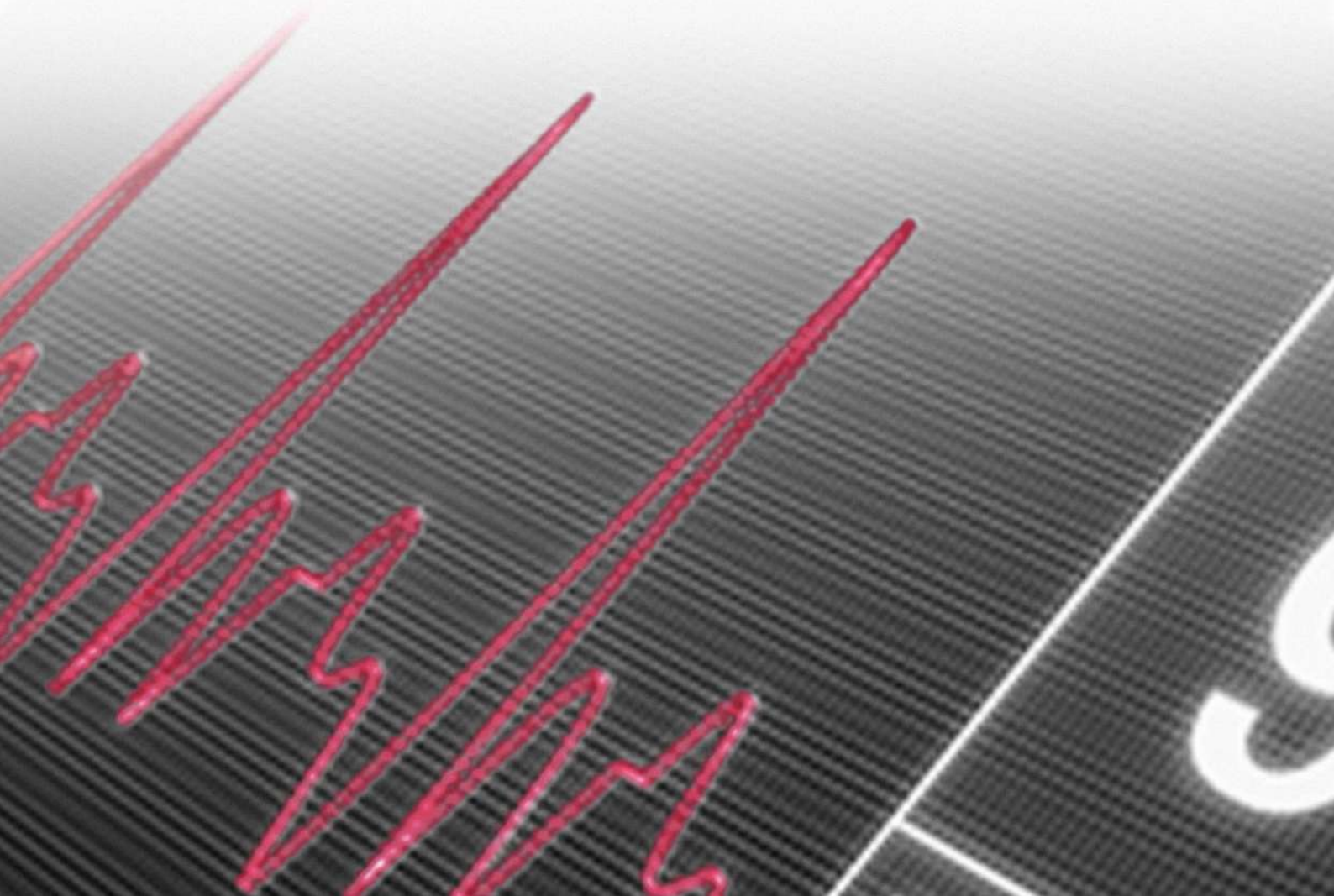
Design & Development

Traco Power Solutions Ltd.
Whitemill Industrial Estate
Whitemill Road, Wexford
Y35 YH66, Ireland

P +353 53 9167 700
F +353 53 9167 701
info@tracopower-solutions.com

Product Portfolio 2017

Medical



TRACO POWER products for applied versus non-applied medical requirements

For non-applied parts sections of medical equipment, power and safety requirements can be satisfied by any of Traco Power power supplies, non-medical for 1×MOOP applications and medical rated power supplies for all other MOPP levels. If this part of the system is attaching to a DC input from a non-medical rated power supply, then use of our DC/DC Converters should satisfy safety requirements for 1×MOPP / 2×MOPP applications.

For applied parts sections of medical equipment, the clearance and creepage distances, as well as a secondary isolation barrier are required to further isolate the patient from potentially high voltages (2×MOPP is means of patient protection). The isolation barrier may be satisfied using Traco Power medical rated 2×MOPP AC/DC power supplies or DC/DC converters. Even this reinforced insulation system does not unconditionally qualify a power supply unit and DC/DC converter for medical applications. Particular and collateral standards also require that a risk/quality management System be in place at the component level, especially for safety critical applications.

TRACO POWER products for applied parts applications with a 2×MOPP rating, have been carefully designed and manufactured to the highest standards to meet the increased quality, reliability and safety standards for medical equipment. These products have fully regulated output voltages and feature:

- Product certification according to IEC/EN/ES 60601-1 3rd edition for 2×MOPP
- 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 to ISO 13485 quality management system (certification soon)
- 5-year product warranty

TIM 2SM Series

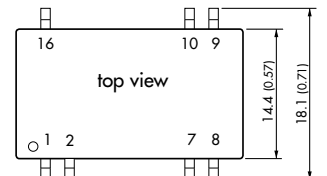
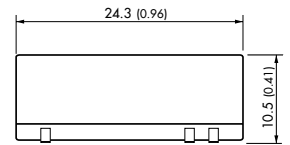
NEW

2 Watt DC/DC converter in SMD-16 package

- 2:1 input voltage with extended low input range:
4.5-12, 9-18, 18-36, 36-75
- Output voltages:
5.0, 12, 15, 24, ± 12 , ± 15 VDC
- I/O isolation 5000 VACrms rated for 250 VACrms working voltage
- Low leakage current
- Input filter to meet EN55022 class A



- 1: -Vin
- 2: NC
- 7: NC
- 8: NC / com
- 9: +Vout
- 10: -Vout
- 16: +Vin



www.tracopower.com/overview/tim2sm

TIM 2 Series

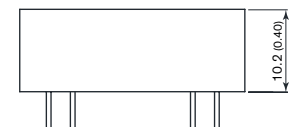
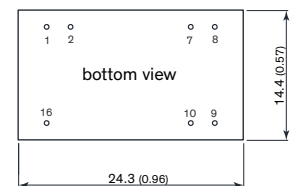
NEW

2 Watt DC/DC converter in DIP-16 package

- 2:1 input voltage with extended low input range:
4.5-12, 9-18, 18-36, 36-75
- Output voltages:
5.0, 12, 15, 24, ± 12 , ± 15 VDC
- I/O isolation 5000 VACrms rated for 250 VACrms working voltage
- Low leakage current
- Input filter to meet EN55022 class A



- 1: -Vin
- 2: NC
- 7: NC
- 8: NC / com
- 9: +Vout
- 10: -Vout
- 16: +Vin



www.tracopower.com/overview/tim2

TIM 3.5SM Series

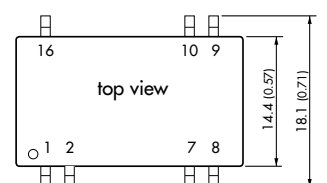
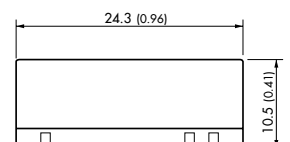
NEW

3.5 Watt DC/DC converter in SMD-16 package

- 2:1 input voltage with extended low input range:
4.5-12, 9-18, 18-36, 36-75
- Output voltages:
5.0, 12, 15, 24, ± 12 , ± 15 VDC
- I/O isolation 5000 VACrms rated for 250 VACrms working voltage
- Low leakage current
- Input filter to meet EN55022 class A



- 1: -Vin
- 2: NC
- 7: NC
- 8: NC / com
- 9: +Vout
- 10: -Vout
- 16: +Vin



www.tracopower.com/overview/tim3sm

TIM 3.5 Series

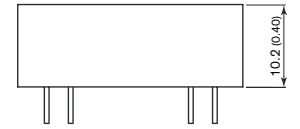
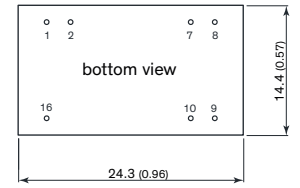
NEW

3.5 Watt DC/DC converter in DIP-16 package

- 2:1 input voltage with extended low input range:
4.5-12, 9-18, 18-36, 36-75
- Output voltages:
5.0, 12, 15, 24, ± 12 , ± 15 VDC
- I/O isolation 5000 VACrms rated for 250 VACrms working voltage
- Low leakage current
- Input filter to meet EN55022 class A



1: -Vin
2: NC
7: NC
8: NC / com
9: +Vout
10: -Vout
16: +Vin



www.tracopower.com/overview/tim3

THM 3 Series

NEW

3 Watt DC/DC converter in DIP-24 package

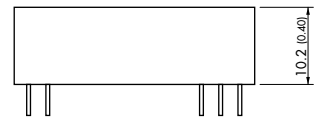
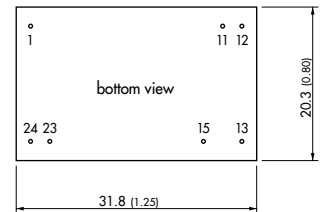
- 2:1 input voltage ranges
4.5-9, 9-18, 18-36, 36-75
- Output voltages:
3.3, 5.0, 12, 15, 24, ± 5 , ± 12 , ± 15 VDC
- I/O isolation 5000 VACrms rated for 250 VACrms working voltage
- Low leakage current $< 2 \mu\text{A}$
- Very high efficiency up to 87%
- Extended operating temperature range
 -40°C to 80°C at full load.
- Input filter to meet EN55022 class A



Single output
1: +Vin
11: no pin
12: -Vout
13: +Vout
15: no pin
23: -Vin
24: -Vin

Dual output
1: +Vin
11: com
12: no pin
13: -Vout
15: +Vout
23: -Vin
24: -Vin

Optional: pinning
of THM 3WI series



www.tracopower.com/overview/thm3

THM 3WI Series

3 Watt DC/DC converter in DIP-24 package

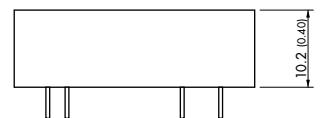
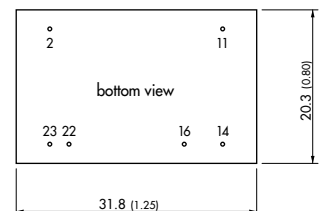
- Wide 4:1 input voltage ranges:
9-36, 18-75
- Output voltages:
3.3, 5.0, 12, 15, 24, ± 5 , ± 12 , ± 15 VDC
- I/O isolation 5000 VACrms rated for 250 VACrms working voltage
- Low leakage current $< 2 \mu\text{A}$
- Very high efficiency up to 87%
- Extended operating temperature range
 -40°C to 80°C at full load.
- Input filter to meet EN55022 class A



Single output
2: -Vin
11: NC
14: +Vout
16: -Vout
22: +Vin
23: +Vin

Dual output
2: -Vin
11: -Vout
14: +Vout
16: com
22: +Vin
23: +Vin

Optional: pinning
of THM 3 series



www.tracopower.com/overview/thm3wi

THM 6 Series

NEW

6 Watt DC/DC converter in DIP-24 package

- 2:1 input voltage ranges
4.5-9, 9-18, 18-36, 36-75
- Output voltages:
3.3, 5.0, 12, 15, 24, ± 5 , ± 12 , ± 15 VDC
- I/O isolation 5000 VACrms rated for
250 VACrms working voltage
- Low leakage current $< 2 \mu\text{A}$
- Very high efficiency up to 88%
- Extended operating temperature range
 -40°C to 70°C at full load.
- Input filter to meet EN55022 class A

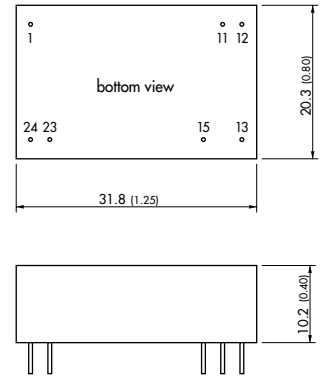


Single output

- 1: +Vin
- 11: no pin
- 12: -Vout
- 13: +Vout
- 15: no pin
- 23: -Vin
- 24: -Vin

Dual output

- 1: +Vin
- 11: com
- 12: no pin
- 13: -Vout
- 15: +Vout
- 23: -Vin
- 24: -Vin

Optional pinning
of THM 6WI series

www.tracopower.com/overview/thm6

THM 6WI Series

6 Watt DC/DC converter in DIP-24 package

- Wide 4:1 input voltage ranges:
9-36, 18-75
- Output voltages:
3.3, 5.0, 12, 15, 24, ± 5 , ± 12 , ± 15 VDC
- I/O isolation 5000 VACrms rated for
250 VACrms working voltage
- Low leakage current $< 2 \mu\text{A}$
- Very high efficiency up to 89%
- Extended operating temperature range
 -40°C to 70°C at full load.
- Input filter to meet EN55022 class A

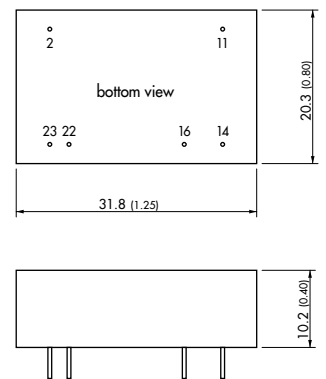


Single output

- 2: -Vin
- 11: NC
- 14: +Vout
- 16: -Vout
- 22: +Vin
- 23: +Vin

Dual output

- 2: -Vin
- 11: -Vout
- 14: +Vout
- 16: com
- 22: +Vin
- 23: +Vin

Optional pinning
of THM 6 series

www.tracopower.com/overview/thm6wi

THM 10 Series

NEW

10 Watt DC/DC converter in DIP-24 package

- 2:1 input voltage ranges
4.5-9, 9-18, 18-36, 36-75
- Output voltages:
3.3, 5.0, 12, 15, 24, ± 5 , ± 12 , ± 15 VDC
- I/O isolation 5000 VACrms rated for
250 VACrms working voltage
- Low leakage current $< 2 \mu\text{A}$
- Very high efficiency up to 89%
- Input filter to meet EN55022 class A

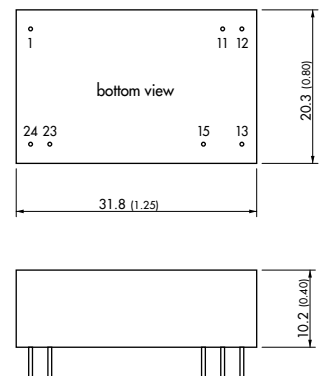


Single output

- 1: +Vin
- 11: no pin
- 12: -Vout
- 13: +Vout
- 15: no pin
- 23: -Vin
- 24: -Vin

Dual output

- 1: +Vin
- 11: com
- 12: no pin
- 13: -Vout
- 15: +Vout
- 23: -Vin
- 24: -Vin

Optional pinning
of THM 10WI
series

www.tracopower.com/overview/thm10

THM 10WI Series

10 Watt DC/DC converter in DIP-24 package

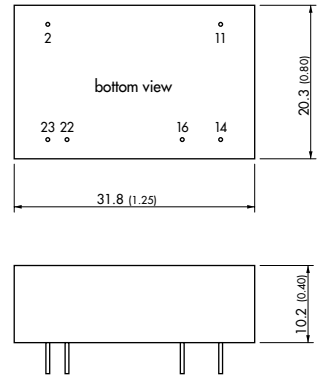
- Wide 4:1 input voltage ranges:
9-36, 18-75
- Output voltages:
3.3, 5.0, 12, 15, 24, ± 5 , ± 12 , ± 15 VDC
- I/O isolation 5000 VACrms rated for
250 VACrms working voltage
- Low leakage current $< 2 \mu\text{A}$
- Very high efficiency up to 89%
- Input filter to meet EN55022 class A



Single output
2: -Vin
11: NC
14: +Vout
16: -Vout
22: +Vin
23: +Vin

Dual output
2: -Vin
11: -Vout
14: +Vout
16: com
22: +Vin
23: +Vin

Optional pinning
of THM 10 series



www.tracopower.com/overview/thm10wi

THM 15WI Series

NEW

15 Watt DC/DC converter in 1.6" x 1" package

- Wide 4:1 input voltage ranges:
9-36, 18-75
- Output voltages:
5.0, 12, 15, 24 VDC adjust. $\pm 10\%$
 ± 5 , ± 12 , ± 15 VDC
- I/O isolation 5000 VACrms rated for
250 VACrms working voltage
- Low leakage current
- Very high efficiency up to 90%



Series available mid of Y2017

www.tracopower.com/overview/thm15wi

THM 20WI Series

NEW

20 Watt DC/DC converter in 1.6" x 1" package

- Wide 4:1 input voltage ranges:
9-36, 18-75
- Output voltages:
5.0, 12, 15, 24 VDC adjust. $\pm 10\%$
 ± 5 , ± 12 , ± 15 VDC
- I/O isolation 5000 VACrms rated for
250 VACrms working voltage
- Low leakage current
- Very high efficiency up to 90%



Series available mid of Y2017

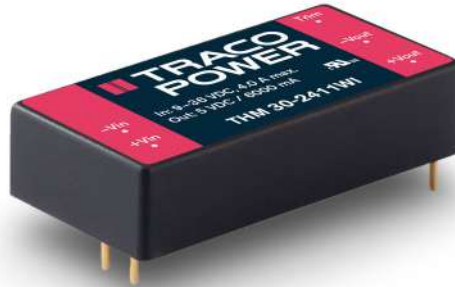
www.tracopower.com/overview/thm20wi

THM 30 Series

NEW

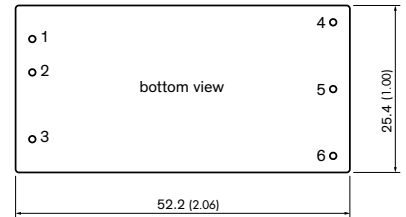
30 Watt DC/DC converter in 2" x 1" package

- Wide 4:1 input voltage ranges:
9-36, 18-75
- Output voltages:
5.0, 12, 15, 24 VDC adjust. $\pm 10\%$
 ± 5 , ± 12 , ± 15 VDC
- I/O isolation 5000 VACrms rated for
250 VACrms working voltage
- Low leakage current
- Very high efficiency up to 90%



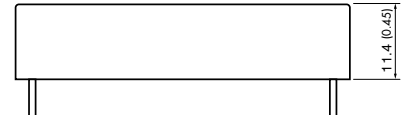
Single output

- 1: +Vin
- 2: -Vin
- 3: RC
- 4: +Vout
- 5: -Vout
- 6: Trim



Dual output

- 1: +Vin
- 2: -Vin
- 3: RC
- 4: +Vout
- 5: com.
- 6: -Vout



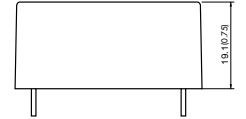
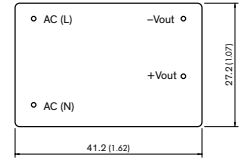
www.tracopower.com/overview/thm30wi

TMF 05 Series

NEW

5 Watt AC/DC power module

- Universal input 90-264 VAC and 120-370 VDC
- Output voltages: 5.0, 12, 15, 24 VDC
- Fully encapsulated ultra compact plastic casing for PCB mount
- Protection class II prepared
- Low leakage current <100 μ A
- Operating temperature range -25°C to 70°C.
- Input filter to meet EN55022 class B



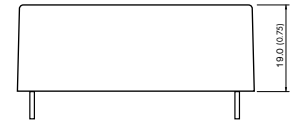
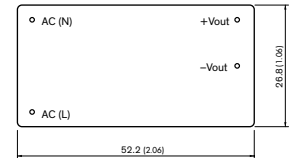
www.tracopower.com/overview/tmf05

TMF 10 Series

NEW

10 Watt AC/DC power module

- Universal input 90-264 VAC and 120-370 VDC
- Output voltages: 5.0, 12, 15, 24 VDC
- Fully encapsulated ultra compact plastic casing for PCB mount
- Protection class II prepared
- Low leakage current <100 μ A
- Operating temperature range -25°C to 70°C.
- Input filter to meet EN55022 class B



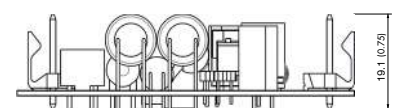
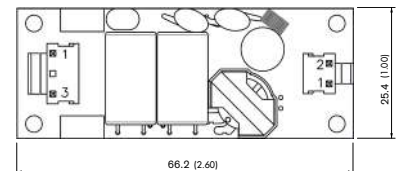
www.tracopower.com/overview/tmf10

TPP 15 Series

NEW

15 Watt AC/DC open frame power supply

- Universal input 90-264 VAC and 120-370 VDC
- Output voltages adjust $\pm 10\%$: 3.3, 5.0, 12, 15, 24, 48 VDC
- Protection class II prepared
- Low leakage current <75 μ A
- Operating temperature range -25°C to 85°C.
- Input filter to meet EN55022 class



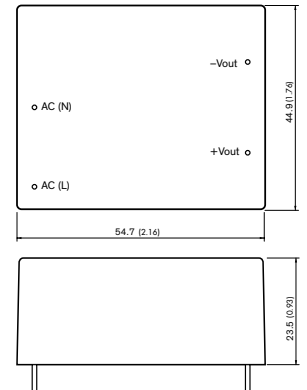
www.tracopower.com/overview/tpp15

TMF 20 Series

NEW

20 Watt AC/DC power module

- Universal input 90-264 VAC and 120-370 VDC
- Output voltages: 5.0, 12, 15, 24 VDC
- Fully encapsulated ultra compact plastic casing for PCB mount
- Protection class II prepared
- Low leakage current <100 μ A
- Operating temperature range -25°C to 70°C.
- Input filter to meet EN55022 class B



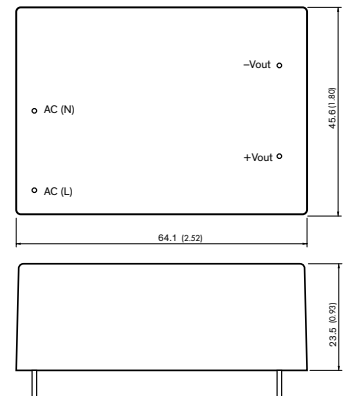
www.tracopower.com/overview/tmf20

TMF 30 Series

NEW

30 Watt AC/DC power module

- Universal input 90-264 VAC and 120-370 VDC
- Output voltages: 5.0, 12, 15, 24 VDC
- Fully encapsulated ultra compact plastic casing for PCB mount
- Protection class II prepared
- Low leakage current <100 μ A
- Operating temperature range -25°C to 70°C.
- Input filter to meet EN55022 class B



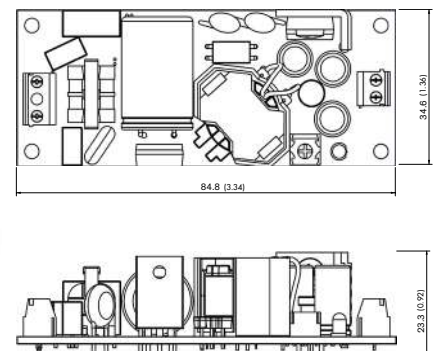
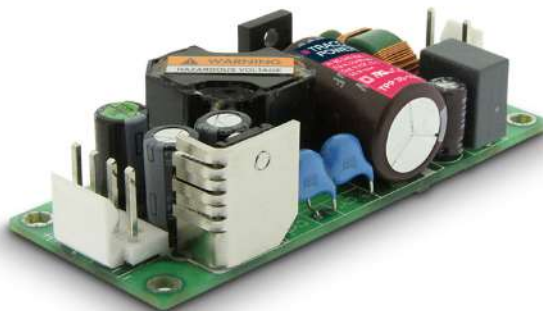
www.tracopower.com/overview/tmf30

TPP 30

NEW

30 Watt AC/DC open frame power supply

- Universal input 90-264 VAC and 120-370 VDC
- Output voltages adjust $\pm 10\%$: 3.3, 5.0, 12, 15, 24, 48 VDC
- Protection class II prepared
- Low leakage current <75 μ A
- Operating temperature range -25°C to 85°C.
- Input filter to meet EN55022 class B



www.tracopower.com/overview/tpp30

TPP 40 Series

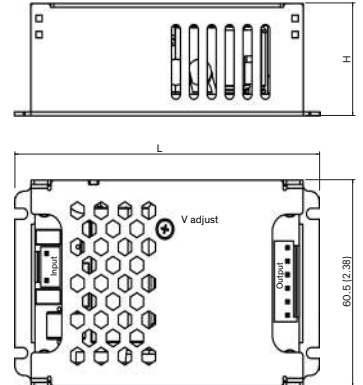
40 Watt AC/DC metal enclosure power supply

- Universal input 85-264 VAC and 120-370 VDC
- Output voltages (Vout1 adjust. $\pm 10\%$)
single: 5.0, 12, 15, 24, 48 VDC
dual: 12/5, 15/5, 24/5 VDC
triple: $\pm 12/5$, $\pm 15/5$, 24/5/12 VDC
- Highest efficiency (ErP ready)
- Protection class II prepared
- Low leakage current $< 75 \mu\text{A}$
- Optional: Open frame, DIN-rail, individual output voltages...



Single output
L = 89.7 (3.53)
H = 33.3 (1.31)

Multi output
L = 102.4 (4.03)
H = 34.3 (1.36)



www.tracopower.com/overview/tpp40

TPP 65 Series

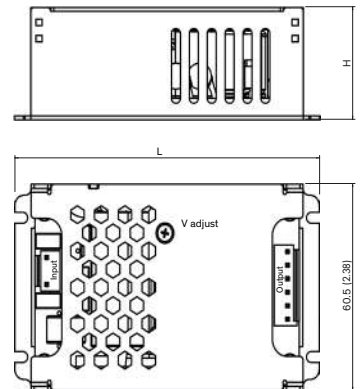
65 Watt AC/DC metal enclosure power supply

- Universal input 85-264 VAC and 120-370 VDC
- Output voltages (Vout1 adjust. $\pm 10\%$)
single: 5.0, 12, 15, 24, 48 VDC
dual: 12/5, 15/5, 24/5 VDC
triple: $\pm 12/5$, $\pm 15/5$, 24/5/12 VDC
- Highest efficiency (ErP ready)
- Protection class II prepared
- Low leakage current $< 75 \mu\text{A}$
- Optional: Open frame, DIN-rail, individual output voltages...



Single output
L = 89.7 (3.53)
H = 33.3 (1.31)

Multi output
L = 102.4 (4.03)
H = 34.3 (1.36)

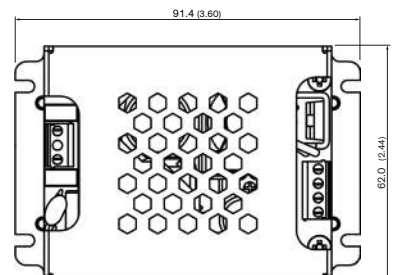
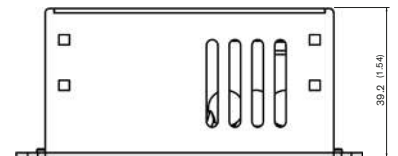


www.tracopower.com/overview/tpp65

TPP 100 Series

100 Watt AC/DC metal enclosure power supply

- Universal input 85-264 VAC and 120-370 VDC
- Output voltages adjustable $\pm 10\%$:
12, 15, 24, 28, 36, 48 VDC
- Active power factor correction
- Highest efficiency (ErP ready)
- Protection class II prepared
- Low leakage current $< 75 \mu\text{A}$
- Optional: Open frame, DIN-rail, individual output voltages...



www.tracopower.com/overview/tpp100

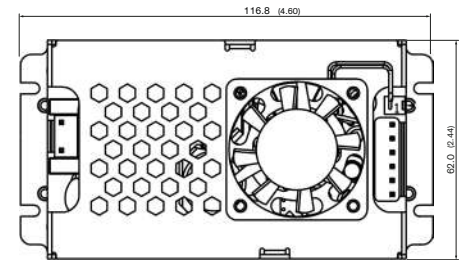
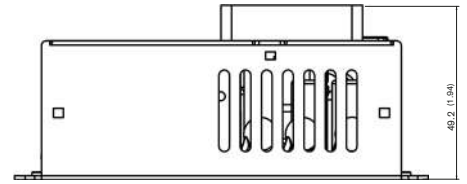
TPP 150 Series

150 Watt AC/DC metal enclosure power supply

- Universal input 85-264 VAC and 120-370 VDC
- Output voltages adjustable $\pm 10\%$: 12, 15, 24, 28, 36, 48 VDC
- Active power factor correction
- Highest efficiency (ErP ready)
- Protection class II prepared
- Low leakage current $< 75 \mu\text{A}$
- Optional: Open frame, DIN-rail, individual output voltages...



www.tracopower.com/overview/tpp150



TRACO POWER – dedicated to design and production of high quality, state-of-the-art AC/DC & DC/DC power conversion products for Industrial, Medical & Railway applications. 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 13+ 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.

International Office

TRACO Electronic AG
Sihlbruggstrasse 111
6340 Baar
Switzerland

P +41 43 311 45 11
F +41 43 311 45 45
info@traco.ch

German Office

Traco Electronic GmbH
Oskar-Messter-Str. 20a
85737 Ismaning/München
Germany

P +49 89 96 11 82-0
F +49 89 96 11 82-20
info@traco-electronic.de

North America Office

Traco Power North America, Inc.
2025 Gateway Place #330
San Jose, CA 95110
USA

P +1 (408) 916-4570
F +1 (408) 916-4571
salesusa@tracopower.com

Design & Development

Traco Power Solutions Ltd.
Whitemill Industrial Estate
Whitemill Road, Wexford
Y35 YH66, Ireland

P +353 53 9167 700
F +353 53 9167 701
info@tracopower-solutions.com

Product Portfolio 2017

Railway / Ruggedized DC/DC Converters



Ruggedized DC/DC converters for railway and industrial applications

DC/DC converters for railway and ruggedized industrial applications must withstand greater disruptive forces than most stationary applications and are subject to greater demands for operational safety, durability and thermal shock. European standards EN 50155 and EN 61373 were established to provide internationally recognized standards for these type of applications. These standards are now considered to be the defacto symbol of quality, indicating robustness, reliability and durability in the railway and transportation sectors and applications with extreme environments.

EN50155 defines the minimum input requirements for DC/DC converters as follows:

Bus Voltage	Continuous input voltage range	Brownout 100 ms	Transient 1 sec	TRACO POWER railway DC/DC input ranges
24VDC	16.8-30.0V	14.4V	33.6V	Satisfied by 9~36 VDC input range products
37.5VDC	26.2-47.0V	22.5V	52.5V	Satisfied by 18~75 VDC input range products
48VDC	33.6-60.0V	28.8V	67.2V	Satisfied by 18~75 VDC input range products
72VDC	50.4-90.0V	43.2V	100.8V	Satisfied by 43~160 VDC input range products
96VDC	67.2-120.0V	57.6V	134.4V	Satisfied by 43~160 VDC input range products
110VDC	77.0-137.5V	66.0V	154.0V	Satisfied by 43~160 VDC input range products

EN 50155 sets these additional requirements:

- Galvanic isolation to protect electronic circuits
- Standards for immunity and susceptibility from conducted / radiated noise
- Relative humidity levels up to 95% relative for 30 consecutive days

EN 61373 defines that DC/DC converters must provide continuous operation under these stresses:

- Random vibration - frequency range of 5-150 Hz @ 5grms (5hrs per axis)
- Shock - peak acceleration of 5g/2g/1g (duration: 50ms/20ms/20ms.)

All TRACO POWER DC/DC converters classified as “Railway” are extremely robust and safety qualified to meet EN 50155 and EN 61373. They offer continuous operational input ranges that exceed EN 50155’s defined ranges with galvanic isolation up to 2250 VDC (input to output / input to case). Our DC/DC modules are fully enclosed and encapsulated with additional filtration circuits to protect from radiated / conducted noise while providing ruggedized mechanical protection from shock, vibration, humidity and air particles such as dust and water. The convection and conduction cooled package design of Traco Power railway DC/DC converters enable operation in extreme environments that can swing quickly from low to high temperatures ranging at least -40 to +85°C ambient. Additional qualification for the fire behaviour of components according to EN 45545-2 to ensure all our products are safe and of the highest quality for operation in extreme environments.

TMR 3WIR Series

NEW

- Wide 4:1 input voltage ranges:
9-36, 18-75, 43-160 VDC
- Output voltages:
3.3, 5.0, 9.0, 12, 15, 24,
 ± 5 , ± 12 , ± 15 VDC

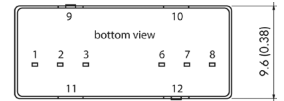


www.tracopower.com/overview/tmr3wir

3 Watt in SIP-8 metal package

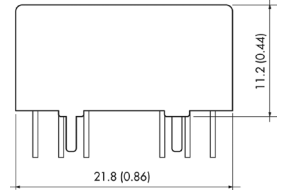
single output

- 1: -Vin
- 2: +Vin
- 3: On/Off
- 6: +Vout
- 7: -Vout
- 8: Com.



dual output

- 1: -Vin
- 2: +Vin
- 3: On/Off
- 6: +Vout
- 7: -Vout
- 8: Com.



TMR 6WIR Series

NEW

- Wide 4:1 input voltage ranges:
9-36, 18-75, 43-160 VDC
- Output voltages:
3.3, 5.0, 9.0, 12, 15, 24,
 ± 5 , ± 12 , ± 15 VDC

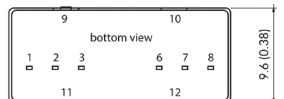


www.tracopower.com/overview/tmr6wir

6 Watt in SIP-8 metal package

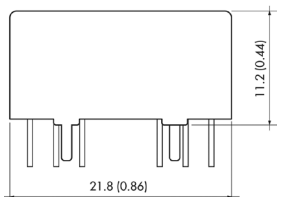
Single output

- 1: -Vin
- 2: +Vin
- 3: On/Off
- 6: +Vout
- 7: -Vout
- 8: Com.



Dual output

- 1: -Vin
- 2: +Vin
- 3: On/Off
- 6: +Vout
- 7: -Vout
- 8: Com.



TEN 8WI Series

- Wide 4:1 input voltage ranges:
9-36, 18-75, 43-160 VDC
- Output voltages:
3.3, 5.0, 12, 15, ± 5 , ± 12 , ± 15 VDC

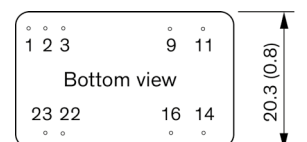


www.tracopower.com/overview/ten8wi

8 Watt in DIP-24 package

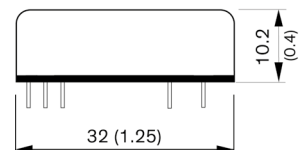
Single output

- 1: On/Off
- 2: -Vin
- 3: -Vin
- 9: nc
- 11: nc
- 14: +Vout
- 16: -Vout
- 22: +Vin
- 23: +Vin



Dual output

- 1: On/Off
- 2: -Vin
- 3: -Vin
- 9: Com.
- 11: -Vout
- 14: +Vout
- 16: Com.
- 22: +Vin
- 23: +Vin



THN 15WIR Series

NEW

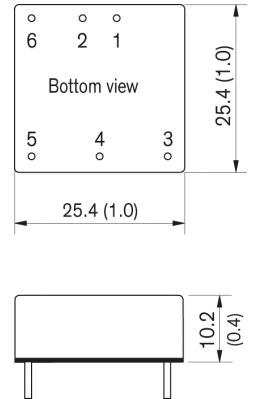
15 Watt in 1" x 1" package

- Wide 4:1 input voltage ranges:
9-36, 18-75, 40-160 VDC
- Output voltages:
3.3, 5.0, 12, 15, 24 adjust. $\pm 10\%$
 $\pm 5, \pm 12, \pm 15, \pm 24$ VDC
- Six side shielded metal casing
- Input filter to meet EN55022 class A
- Very high efficiency up to 91%



single output
1: +Vin
2: -Vin
3: On/Off
4: +Vout
5: -Vout
6: Trim

dual output
1: +Vin
2: -Vin
3: On/Off
4: +Vout
5: Com.
6: -Vout



www.tracopower.com/overview/thn15wir

TEN 20WIR Series

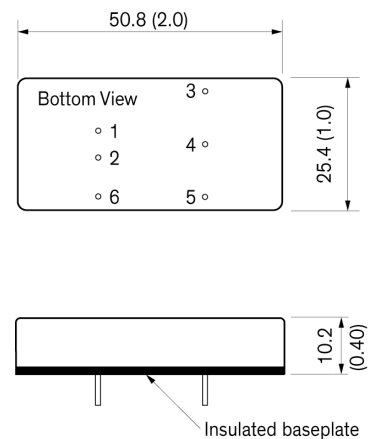
20 Watt in 2" x 1" package

- Wide 4:1 input voltage ranges:
9-36, 18-75, 43-160 VDC
- Output voltages:
3.3, 5.0, 12, 15 adjust. $\pm 10\%$
 $\pm 12, \pm 15$ VDC
- Six side shielded metal casing
- Input filter to meet EN55022 class B for 9-36, 18-75 VDC input
class A for 40-160 VDC input
- Under voltage lock-out circuit



single output
1: +Vin
2: -Vin
3: On/Off
4: +Vout
5: -Vout
6: Trim

dual output
1: +Vin
2: -Vin
3: On/Off
4: +Vout
5: Com.
6: -Vout



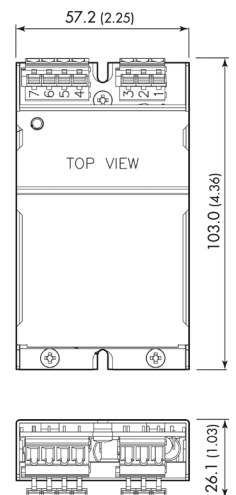
www.tracopower.com/overview/ten20wir

TEQ 20WIR Series

NEW

20 Watt in chassis mount package

- Wide 4:1 input voltage ranges:
9-36, 18-75, 43-160 VDC
- Output voltages:
3.3, 5.0, 12, 15, 24 adjust. $\pm 10\%$
 $\pm 12, \pm 15$ VDC
- Input filter to meet EN55022 class B
- Voltage interruption class 2 without external components
- Under voltage lock-out circuit
- DC-Ok LED indicator
- Operating temperature range
-40°C to 85°C at full load
- Optional DIN-rail mounting



www.tracopower.com/overview/teq20wir

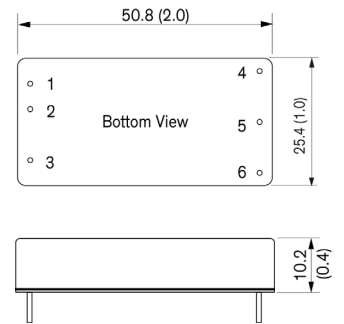
TEN 40WIR Series

- Wide 4:1 input voltage ranges: 9-36, 18-75, 43-160 VDC
- Output voltages: 3.3, 5.0, 12, 15, 24 VDC adjust. $\pm 10\%$ ± 12 , ± 15 , 24 VDC
- Six side shielded metal casing
- Very high efficiency up to 92%
- Under voltage lock-out circuit



40 Watt in 2" x 1" package

- single output
- 1: +Vin
 - 2: -Vin
 - 3: On/Off
 - 4: +Vout
 - 5: -Vout
 - 6: Trim
- dual output
- 1: +Vin
 - 2: -Vin
 - 3: On/Off
 - 4: +Vout
 - 5: Com.
 - 6: -Vout



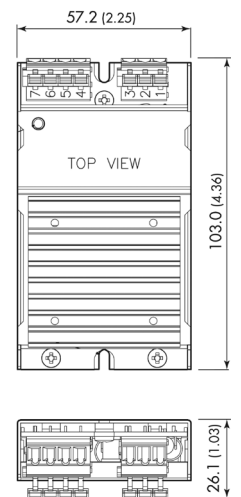
www.tracopower.com/overview/ten40wir

TEQ 40WIR Series

NEW

40 Watt in chassis mount package

- Wide 4:1 input voltage ranges: 9-36, 18-75, 43-160 VDC
- Output voltages: 5.0, 12, 15, 24 adjust. $\pm 10\%$
- Input filter to meet EN55022 class B
- Voltage interruption class 2 without external components
- Under voltage lock-out circuit
- Very high efficiency up to 91%
- DC-Ok LED indicator
- Operating temperature range -40°C to 85°C at full load
- Optional DIN-rail mounting



www.tracopower.com/overview/teq40wir

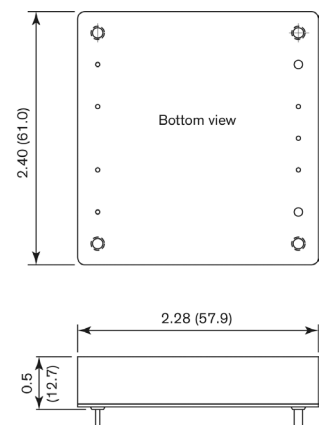
TEP 75WI Series

75 Watt in 2.4" x 2.3" package PCB or chassis mount

- Wide 4:1 input voltage ranges: 9-36, 18-75, 43-160 VDC
- Output voltages: 5.0, 12, 15, 24, 48 VDC adjust. +10%/-20%
- Input filter to meet EN55022 class B
- Under voltage lock-out circuit
- Very high efficiency up to 91%
- Options:
 - Chassis mount (see TEP 100WIR)
 - Mounted heat-sink (see TEP 160WIR)
 - Chassis mount with EMI filter (see TEP 200WIR)
 - DIN-rail mount



picture: standard PCB mount version



www.tracopower.com/overview/teq75wi

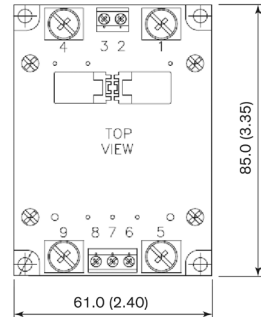
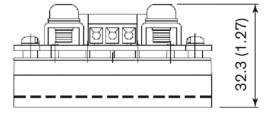
TEP 100WIR

100 Watt in 2.4" x 2.3" package PCB or chassis mount

- Wide 4:1 input voltage ranges:
9-36, 18-75, 43-160 VDC
- Output voltages:
5.0, 12, 15, 24, 48 VDC adjust. +10%/-20%
- Under-voltage lock-out circuit
- Over-temperature protection (auto restart)
- Very high efficiency up to 91%
- Options:
 - Chassis mount (see picture)
 - Mounted heat-sink (see TEP 160WIR)
 - Chassis mount with EMI filter (see TEP 200WIR)
 - DIN-rail mount



picture: optional chassis mount version
standard PCB version see picture of TEP 75WI

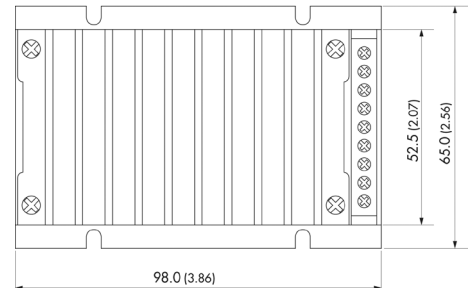


www.tracopower.com/overview/tep100wir

TEP 150WI Series

150 Watt in chassis mount package

- Wide 4:1 input voltage ranges:
9-36, 18-75, 43-160 VDC
- Output voltages:
12, 15, 24, 28, 48 VDC adjust. +20%
- Constant voltage up to 100% load then constant current (suitable for battery load applications)
- Under-voltage lock-out circuit
- Over-temperature protection (auto restart)
- Option:
Input filter to meet EN55022 class B



www.tracopower.com/overview/tep150wi

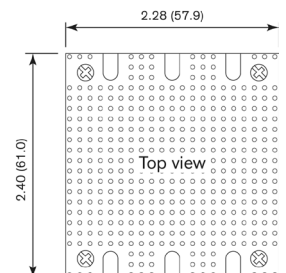
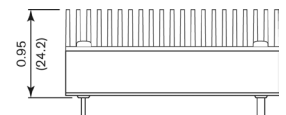
TEP 160WIR

160 Watt in 2.4" x 2.3" package PCB or chassis mount

- Wide 4:1 input voltage ranges:
9-36, 18-75, 43-160 VDC
- Output voltages:
12, 15, 24, 28, 48 VDC adjust. +10%/-20%
- Under voltage lock-out circuit
- Over-temperature protection (auto restart)
- Very high efficiency up to 91%
- Options:
 - Chassis mount (see TEP 100WIR)
 - Mounted heat-sink (see picture)
 - Chassis mount with EMI filter (see TEP 200WIR)
 - DIN-rail mount



picture: with optional mounted heat-sink
standard PCB version see picture of TEP 75WI

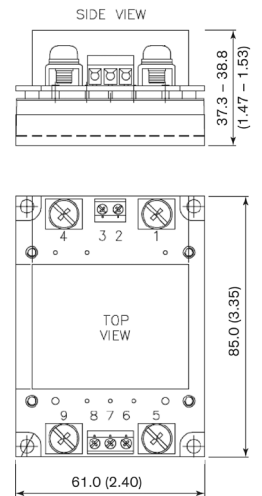


www.tracopower.com/overview/tep160wir

TEP 200WIR Series

200 Watt in chassis mount package

- Wide 4:1 input voltage ranges:
9-36, 18-75, 43-160 VDC
- Output voltages:
12, 15, 24, 28, 48 VDC adjust. +10%/-20%
- Input filter to meet EN55022 class A
- Under-voltage lock-out circuit
- Over-temperature protection (auto restart)
- Very high efficiency up to 91%
- Options:
 - PCB mount (see TEP 75WIR)
 - PCB mount with heat-sink (see TEP 160WIR)
 - Chassis mount without EMI filter (see TEP 100WIR)
 - DIN-rail mount

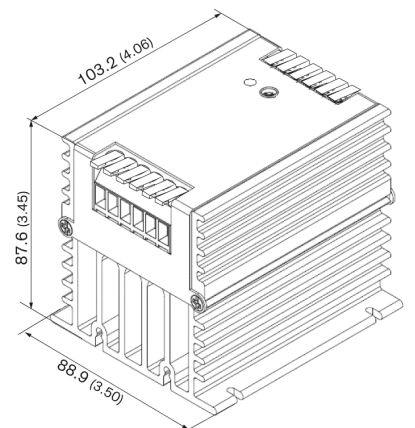


www.tracopower.com/overview/tep200wir

TEQ Series

100 - 200 Watt in chassis mount package

- Wide 4:1 input voltage ranges:
9-36, 18-75, 43-160 VDC
- Output voltages:
12, 24, 28, 48 VDC adjust. +10%/-20%
- Excellent thermal convection
- Input filter to meet EN55022 class A
- Under-voltage lock-out circuit
- Soft start
- Over-temperature protection (auto restart)
- Very high efficiency up to 90%



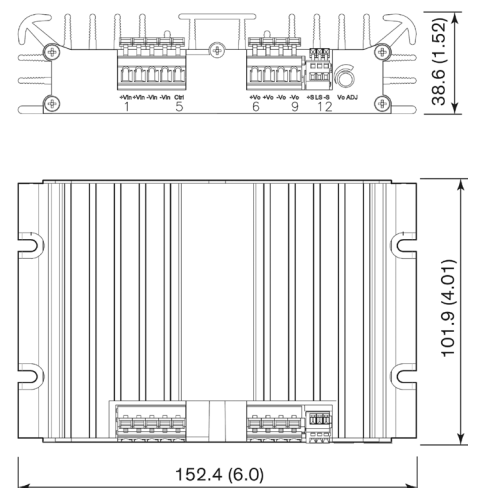
www.tracopower.com/overview/teq

TEQ 300WIR Series

NEW

300 Watt in chassis mount package

- Wide 4:1 input voltage ranges:
18-75, 43-160 VDC
- Output voltages:
12, 15, 24, 28, 48 VDC adjust. +20%
- Constant voltage up to 100% load then constant current mode up to 400 Watt (suitable for battery load applications)
- Under-voltage lock-out circuit
- Sens lines
- Load share input for parallel operation
- Very high efficiency up to 91%
- Input filter to meet EN55022 class A



www.tracopower.com/overview/teq300wir

TRACO POWER – dedicated to design and production of high quality, state-of-the-art AC/DC & DC/DC power conversion products for Industrial, Medical & Railway applications. 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 13+ 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.

International Office

Traco Electronic AG
Sihlbruggstrasse 111
6340 Baar
Switzerland

P +41 43 311 45 11
F +41 43 311 45 45
info@traco.ch

German Office

Traco Electronic GmbH
Oskar-Messter-Str. 20a
85737 Ismaning/München
Germany

P +49 89 96 11 82-0
F +49 89 96 11 82-20
info@traco-electronic.de

North America Office

Traco Power North America, Inc.
2025 Gateway Place #330
San Jose, CA 95110
USA

P +1 (408) 916-4570
F +1 (408) 916-4571
salesusa@tracopower.com

Design & Development

Traco Power Solutions Ltd.
Whitemill Industrial Estate
Whitemill Road, Wexford
Y35 YH66, Ireland

P +353 53 9167 700
F +353 53 9167 701
info@tracopower-solutions.com

Product Portfolio 2017

Industrial Power Supplies and System Solutions



The varying levels of industrial power supplies

All power supplies designed for use in non-medical application are required to meet the international safety standards of IEC/EN/UL 60950-1. Industrial grade power supplies are subjected to increased requirements which vary depending upon their operating environment, typically divided into 2 categories, one for office / manufacturing environments and another for harsh/hazardous environments.

For power supplies in household applications, there are virtually no differences when it comes to insulation and operational safety. However, stronger electromagnetic and conducted disturbances are expected to arise in industrial environments, and electrical power supplies must be resistant to these. EMC immunity tests according to the generic standard IEC 61000-6-2 „immunity for industrial environments“ is the common denominator for a power supply being classified as industrial-grade.

The right product for the application and environment / standard products

Traco Power offers a wide selection of standard industrial power supplies that are manufactured and tested according to the varying environments and applicable safety standards, allowing our customers to choose the power solution that is most cost-effective for their application and environmental requirements.

All our industrial rated power supplies provide following features as standard:

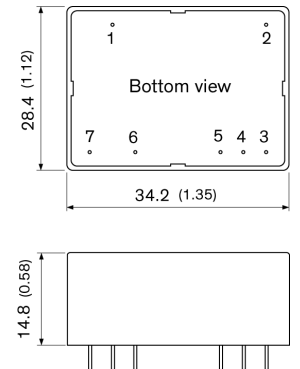
- Safety approval according IEC/EN/UL 60950-1 (for 3000 VAC I/O isolation)
- EMC immunity according IEC 61000-6-2
- EMC emission according EN 55022 class B
- Protection against short circuit, overload and output over-voltage

Customer specific applications / customized solutions

It is often not possible to find a standard power supply that fully complies with the respective requirements or without unnecessary features making the application more expensive. With our design company **TRACO POWER SOLUTIONS** we have a center of competence to develop and optimize power supplies for customer-specific requirements. The motto from our design team is “Reduced to the Max” and develop or modify a solution specific to your needs at the lowest cost of ownership.

TMSB 2 Series**NEW****2 Watt standby power modules**

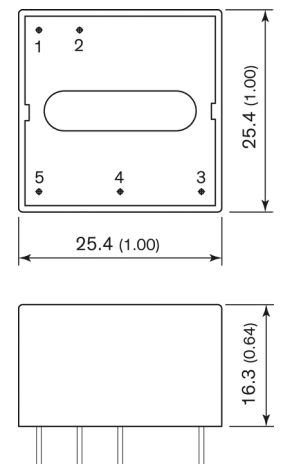
- Universal input 90-264 VAC and 120-370 VDC
- Output voltages: 8, 14, 24 VDC
- No load input power <30 mW ErP-ready
- Constant power characteristics at 2W (no current limitation)
- Suitable to drive relays, solenoids, capacitive loads and LED's
- Constant voltage auxiliary outputs 3.3 and 5.0 VDC
- Safety: IEC 60335-1 (household)



www.tracopower.com/overview/tmsb2

TMPS 03 Series**NEW****3 Watt compact low power modules**

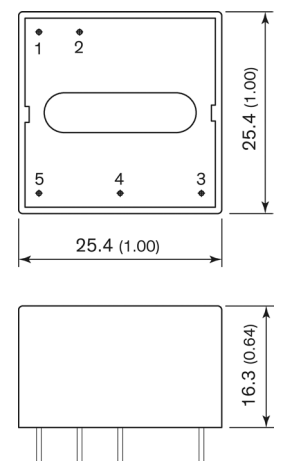
- Universal input 85-264 VAC and 120-370 VDC
- Output voltages: 3.3, 5.0, 9.0, 12, 15, 24 VDC
- No load input power <150 mW ErP-ready
- Safety: IEC 60335-1 (household)



www.tracopower.com/overview/tmps03

TMPS 05 Series**NEW****5 Watt compact low power modules**

- Universal input 85-264 VAC and 120-370 VDC
- Output voltages: 3.3, 5.0, 9.0, 12, 15, 24 VDC
- No load input power <300 mW ErP-ready
- Safety: IEC 60335-1 (household)



www.tracopower.com/overview/tmps05

TMPM Series

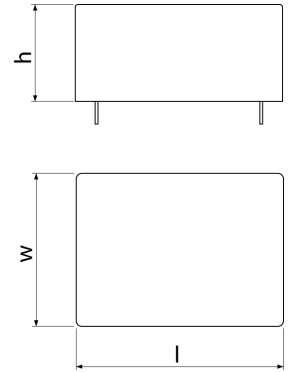
- Universal input 85-264 VAC and 120-370 VDC
- Output voltages: 3.3, 5.0, 9.0, 12, 15, 24, ± 12 , ± 15 , 5.0/3.3, 12/5.0 VDC
- Over-temperature protection



www.tracopower.com/overview/tmpm

4-10 Watt compact power modules

TMPM 4 Watt
l: 36.5 mm
w: 27 mm
h: 17.1 mm
TMPM 10 Watt
l: 52.4 mm
w: 27.2 mm
h: 23.5 mm



TMLM Series

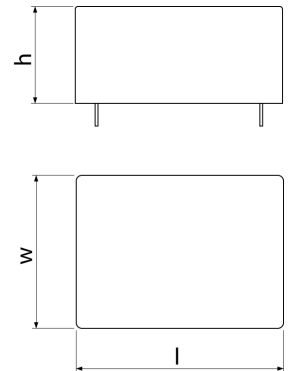
- Universal input 90-264 VAC and 120-370 VDC
extended 85-305 VAC for 4 Watt models
- Output voltages: 3.3, 5.0, 9.0, 12, 15, 24, 5.0/3.3, 12/5.0 VDC



www.tracopower.com/overview/tmlm

4-20 Watt compact power modules

TMLM 4 Watt
l: 36.5 mm
w: 27 mm
h: 17.1 mm
TMLM 5 Watt
l: 50.8 mm
w: 25.4 mm
h: 15.2 mm
TMLM 10/20 Watt
l: 52.4 mm
w: 27.2 mm
h: 23.5 mm



TMG Series

NEW

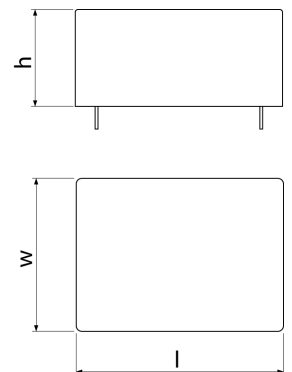
- Universal input 90-264 VAC and 120-370 VDC
- Output voltages: 5.0, 12, 15, 24, 48 VDC
- High efficiency up to 90 %
- No load input power <300 mW
ErP-ready



www.tracopower.com/overview/tmg

7-50 Watt compact power modules

TMG 7 Watt
l: 27.4 mm
w: 27.4 mm
h: 18.7 mm
TMG 15 Watt
l: 41.2 mm
w: 27.2 mm
h: 19.1 mm
TMG 30 Watt
l: 64.0 mm
w: 45.0 mm
h: 23.5 mm
TMG 50 Watt
l: 74.1 mm
w: 54.1 mm
h: 21.8 mm



TMP Series

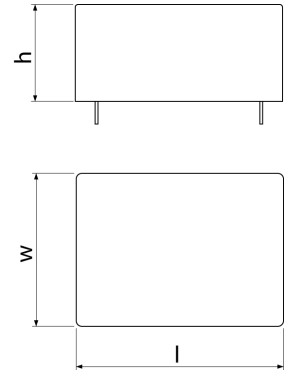
- Universal input 85-264 VAC and 120-370 VDC
- Output voltages: 3.3, 5.0, 12, 15, 24, 48, ± 12 , ± 15 , 5.0/12 VDC and triple output models
- Over-temperature protection



www.tracopower.com/overview/tmp

7-60 Watt power modules

TMP 7 Watt
l: 50.8 mm
w: 25.4 mm
h: 19.3 mm
TMP 10 Watt
l: 64.0 mm
w: 45.0 mm
h: 19.0 mm
TMP 15 Watt
l: 74.0 mm
w: 54.0 mm
h: 19.3 mm
TMP 30 Watt
l: 89.0 mm
w: 63.5 mm
h: 21.5 mm
TMP 60 Watt
l: 89.0 mm
w: 67.5 mm
h: 34.0 mm



TMP-C Series

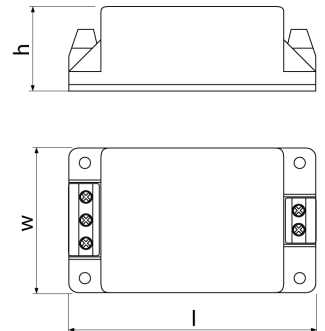
- Universal input 85-264 VAC and 120-370 VDC
- Output voltages: 3.3, 5.0, 12, 15, 24, 48, ± 12 , ± 15 , 5.0/12 VDC and triple output models
- Over-temperature protection
- Safety: UL 508
- Option: DIN-rail mounting bracket



www.tracopower.com/overview/tmp-c

15-60 Watt power modules for chassis mount

TMP-C 15 Watt
l: 96.0 mm
w: 54.0 mm
h: 23.3 mm
TMP-C 30 Watt
l: 112.0 mm
w: 63.8 mm
h: 25.6 mm
TMP-C 60 Watt
l: 112.0 mm
w: 67.8 mm
h: 38.0 mm



TML-(C) Series

- Universal input 90-264 VAC and 100-370 VDC
- Output voltages: 3.3, 5.0, 12, 15, 24, ± 5 , ± 12 , ± 15 , 5/12, 5/24 VDC and triple output models
- Over-temperature protection

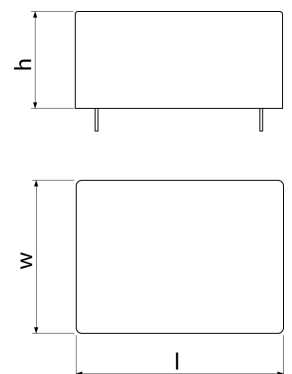


www.tracopower.com/overview/tml

20-40 Watt power modules PCB or chassis mount

PCB version
TML 20 Watt
l: 70.0 mm
w: 48.0 mm
h: 22.0 mm
TML 40 Watt
l: 89.0 mm
w: 63.5 mm
h: 25.0 mm

Chassis version
TML-C 20 Watt
l: 96.0 mm
w: 54.6 mm
h: 27.5 mm
TML-C 40 Watt
l: 112.9 mm
w: 64.7 mm
h: 31.5 mm



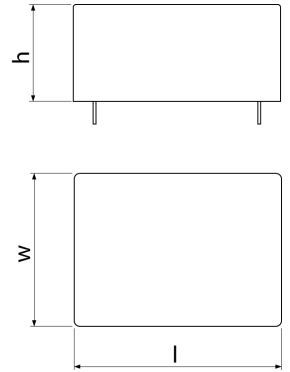
TMM Series

- Universal input 85-264 VAC and 120-370 VDC
- Output voltages: 5.0, 12, 15, 24, ±12, ±15, VDC
- I/O isolation 4000 VAC
- No load input power <300 mW ErP-ready
- -40°C start-up temperature
- Over-temperature protection
- Safety: IEC/EN/ES 60601-1 (medical)



24-60 Watt power modules

TMM 24 Watt
l: 74.0 mm
w: 54.0 mm
h: 19.3 mm
TMM 40 Watt
l: 88.9 mm
w: 63.5 mm
h: 30.0 mm
TMM 60 Watt
l: 89.0 mm
w: 67.5 mm
h: 34.0 mm



www.tracopower.com/overview/tmm

TMM-C Series

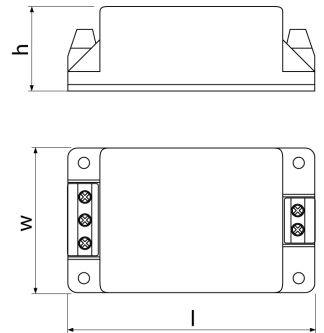
- Universal input 85-264 VAC and 120-370 VDC
- Output voltages: 5.0, 12, 15, 24, ±12, ±15, VDC
- I/O isolation 4000 VAC
- No load input power <300 mW ErP-ready
- -40°C start-up temperature
- Over-temperature protection
- Safety: IEC/EN/ES 60601-1 (medical) UL 508
- Option: DIN-rail mounting bracket



picture: with optional bracket on DIN-rail

24-60 Watt power modules for chassis mount

TMM-C 24 Watt
l: 96.0 mm
w: 54.0 mm
h: 23.3 mm
TMM-C 40 Watt
l: 112.0 mm
w: 63.8 mm
h: 34.1 mm
TMM-C 60 Watt
l: 112.0 mm
w: 67.8 mm
h: 38.0 mm



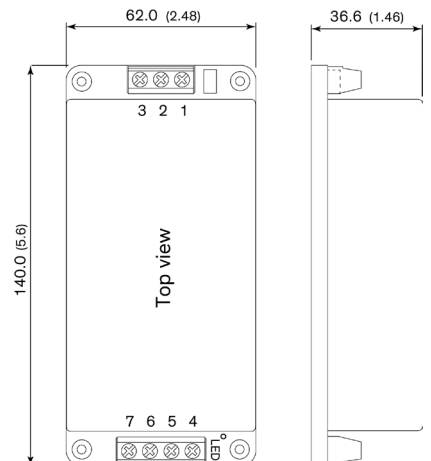
www.tracopower.com/overview/tmm

TML 100C Series

- Universal input 90-264 VAC and 120-370 VDC
- Output voltages: 12, 15, 24, 48 VDC ±5% adjustable
- Active power factor correction
- Very high efficiency up to 94 %
- Remote On/Off
- DC-OK LED indicator



100 Watt power modules for chassis mount



www.tracopower.com/overview/tml100C

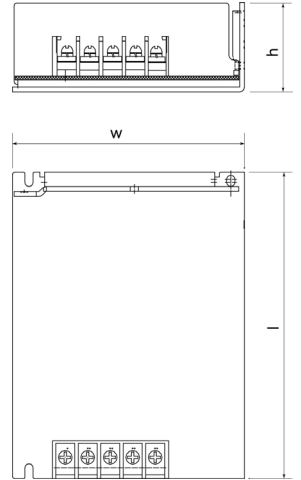
TXM Series

15-150 Watt enclosed power supplies

- Universal input 90-264 VAC and 127-370 VDC
- Output voltages: 3.3, 5.0, 12, 15, 24, 48 VDC adjustable: -5/+10%
- Compact design, no internal fan
- Very high efficiency up to 89%



TXM 15/25 Watt
l: 91 mm
w: 51 mm
h: 29 mm
TXM 35 Watt
l: 102 mm
w: 64 mm
h: 33 mm
TXM 50 Watt
l: 99 mm
w: 82 mm
h: 35 mm
TXM 75 Watt
l: 129 mm
w: 99 mm
h: 38 mm
TXM 100/150 Watt
l: 179 mm
w: 99 mm
h: 50 mm



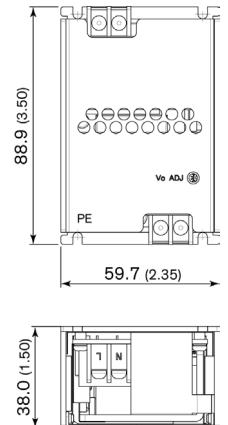
www.tracopower.com/overview/txm

TXH 060 Series

NEW

60 Watt enclosed power supplies

- Universal input 90-264 VAC and 120-370 VDC
- Output voltages: 5.0, 12, 15, 24, 48 VDC adjustable: ±5%
- No load input power <300 mW ErP-ready
- Compact design
- Very high efficiency up to 88%

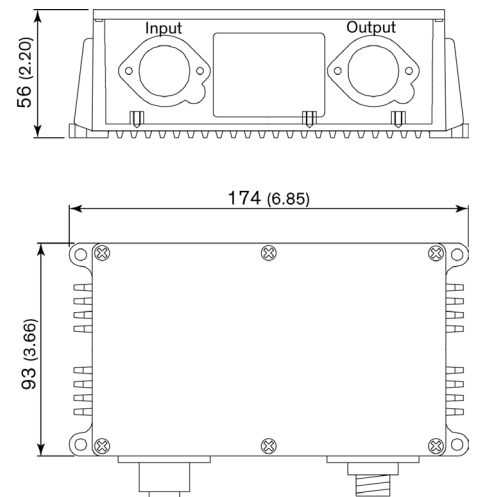


www.tracopower.com/overview/txh060

TEX 120 Series

120 Watt outdoor power supplies

- Universal input 85-264 VAC and 85-375 VDC
- Output voltages: 12-15, 24-28 VDC
- Rugged design in die-cast aluminium housing for extreme environments
- Dust, water (incl. salt water), ice and oil resistant enclosure, IP67 and NEMA 4X
- Operating temperature -40 to 85°C
- safety:
 - UL-hazloc and IEC/EN 60079-15 (Class I, Zone 2, EEx nA IIC T4)
 - UL 508, IEC/EN 61010-1, C22.2 61010-1-12, UL 61010-1 3rd
 - EN 60204-3, EN 50178, EN 61558-2-8



www.tracopower.com/overview/tex120

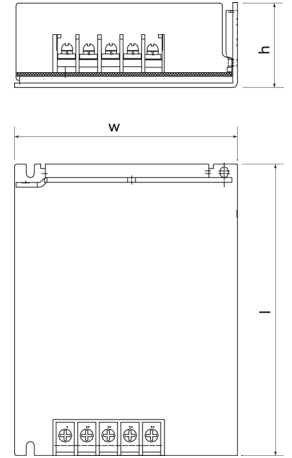
TXH Series

120-480 Watt U-bracket & enclosed power supplies

- Universal input 90-264 VAC and 120-370 VDC
- Output voltages: 12, 24, 48 VDC adjustable $\pm 10\%$
- Very high efficiency up to 93%
- TXH 120/240 cover optional
TXH 360/480 encased with fan



TXH 120 Watt
l: 137 mm
w: 82 mm
h: 38 mm
TXH 240 Watt
l: 150 mm
w: 106 mm
h: 35 mm
TXH 360 Watt
l: 198 mm
w: 82 mm
h: 38 mm
TXH 480 Watt
l: 203 mm
w: 107 mm
h: 45 mm

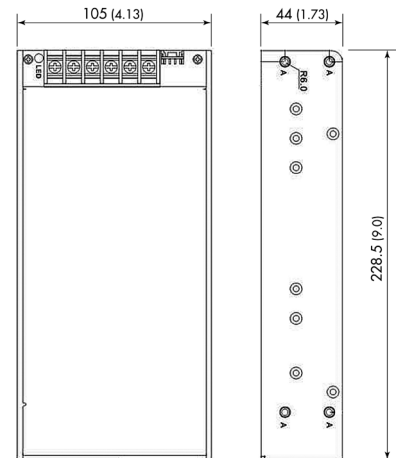


www.tracopower.com/overview/txh

TXH 600 Series

600 Watt universal power supplies

- Universal input 90-264 VAC and 120-370 VDC
- Output voltages: 12, 24, 48, 54 VDC adjustable $\pm 5\%$
- 5 VDC auxiliary output
- Rear side IEC-C13 line socket, including mains switch and fuse
- Active power factor correction
- Very high efficiency up to 93 %
- Over-temperature protection
- DC-OK signal and LED indication
- Sense line and current share function

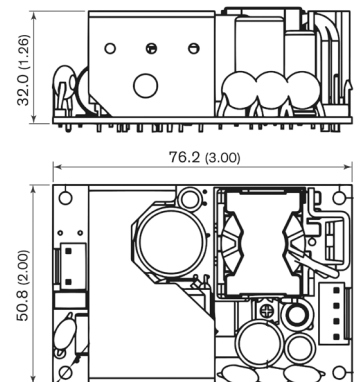


www.tracopower.com/overview/txh600

TPI 100 Series

100 Watt 2" x 3" open frame power supplies

- Universal input 85-264 VAC and 120-370 VDC
- Output voltages 12, 15, 24, 36, 48 VDC adjustable $\pm 10\%$:
- No load input power <300 mW ErP-ready
- Highest efficiency up to 92%
- Active power factor correction
- Options: Metal casing, screw terminal (standard pin connector), DIN-rail

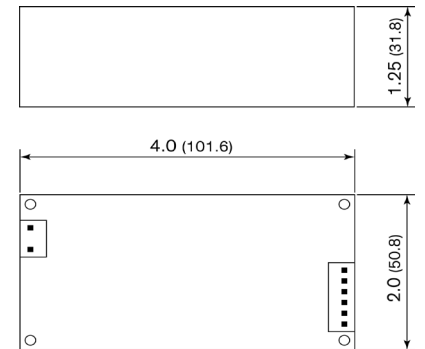


www.tracopower.com/overview/tpi100

TOP 100 Series

100 Watt 2" x 4" open frame power supplies

- Auto-range input
90-132 / 187-264 VAC and
- Output voltages 12, 15, 24, 36, 48 VDC
adjustable $\pm 10\%$:
- Excellent thermal management
- Highest efficiency up to 92%
- Options: Metal casing

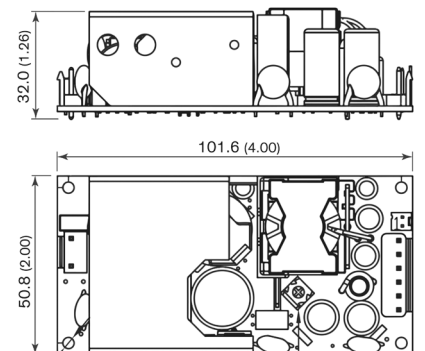


www.tracopower.com/overview/top100

TPI 150 Series

150 Watt 2" x 4" open frame power supplies

- Universal input 85-264 VAC and
120-370 VDC
- Output voltages 12, 15, 24, 36, 48 VDC
adjustable $\pm 10\%$:
- No load input power <300 mW
ErP-ready
- Highest efficiency up to 92%
- Active power factor correction
- Options: Metal casing, screw terminal
(standard pin connector), DIN-rail

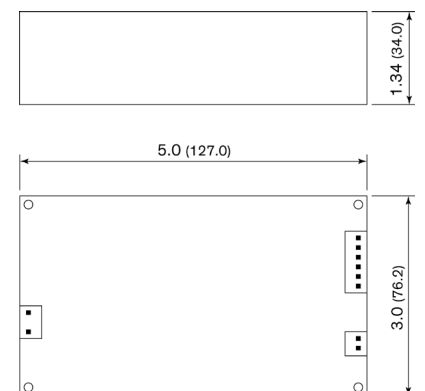


www.tracopower.com/overview/tpi150

TOP 200 Series

200 Watt 3" x 5" open frame power supplies

- Auto-range input
90-132 / 187-264 VAC
- Output voltages 12, 15, 24, 36, 48 VDC
adjustable $\pm 10\%$:
- Excellent thermal management
- Highest efficiency up to 92%
- Options: Metal casing



www.tracopower.com/overview/top200

TBLC Series

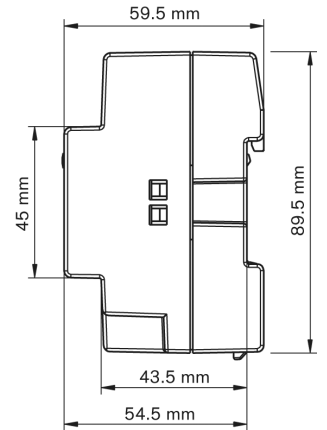
NEW

6-90 Watt low profile (DIN 43880) power supplies

- Universal input 85-264 VAC
- Output voltages adjustable
5-5.5, 12-16, 24-28 VDC
- No load input power <300 mW
ErP-ready
- Highest efficiency and power density
- Low EMC disturbance
- Suitable for domestic installation
panels DIN 43880 compliant
- Constant current mode at overload limit
- Safety: IEC 60335-1 (Household)
EN 50178, EN 60204, EN 61558-2-8
EN 61558-2-16, UL 508, UL1310
(NEC class 2)



Width:
TBLC 6 Watt
18 mm
TBLC 15 Watt
27 mm
TBLC 25 Watt
36 mm
TBLC 50 Watt
54 mm
TBLC 75 Watt
72 mm
TBLC 90 Watt
90 mm



www.tracopower.com/overview/tbhc

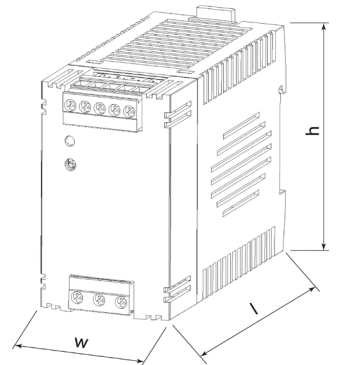
TCL-DC

24-60 Watt DIN-rail DC/DC converters

- Wide input voltage ranges
9.5-18, 18-75 VDC
- Output voltages adjustable
5-5.25, 12-15, 24-28 VDC
- Low EMC disturbance and
low ripple & noise
- Detachable screw type connector
- Constant current mode at overload limit
- Safety: UL 508, EN 50178, EN 60204
- Option: wall mounting bracket
(included)



TCL-DC 24 Watt
l: 100 mm
w: 45 mm
h: 27 mm
TCL-DC 60 Watt
l: 100 mm
w: 45 mm
h: 75 mm



www.tracopower.com/overview/tcl-dc

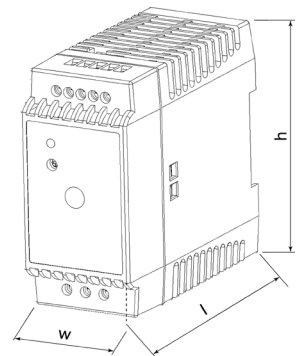
TPC Series

30-120 Watt power supplies in slim plastic casing

- Universal input 85-264 VAC and
120-370 VDC
- Output voltages adjustable
5-6, 12-15, 24-28, 48-56 VDC
- No load input power <300 mW
ErP-ready
- Low EMC disturbance
- Power good signal
- Safety: UL 508, EN 60204, EN 50178
EN 61558-2-8, EN 61558-2-16
- Options:
- Redundancy module (see page 14)
- Wall mounting bracket



TPC 30 Watt
l: 96.5 mm
w: 26.5 mm
h: 90 mm
TPC 55 Watt
l: 96.5 mm
w: 45 mm
h: 90 mm
TPC 80 Watt
l: 96.5 mm
w: 63 mm
h: 90 mm
TPC 120 Watt
l: 110 mm
w: 72 mm
h: 90 mm



www.tracopower.com/overview/tpc

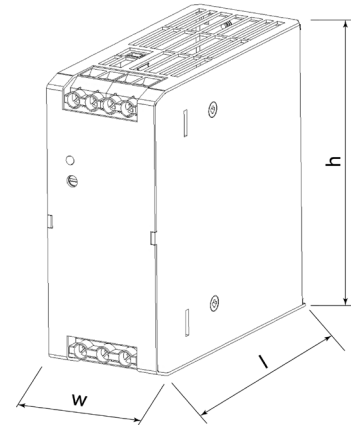
TSPC Series

50-480 Watt rugged power supplies in metal casing

- Auto-range input
90-132 / 187-264 VAC
- Output voltages adjustable
12-14, 24-28, 48-56 VDC
- Power good signal
- Over-temperature protection
- Safety:
IEC/EN 60079-15 (II3G, EEx nA IIC T4)
UL 508, EN 60204-1, EN 50178,
EN 61558-2-6/16
- Options:
- Decoupling module (see page 14)
- Wall mounting bracket



TSPC 50 Watt	l: 87 mm
	w: 35 mm
	h: 110 mm
TSPC 80 Watt	l: 87 mm
	w: 35 mm
	h: 110 mm
TSPC 120 Watt	l: 87 mm
	w: 35 mm
	h: 110 mm
TSPC 240 Watt	l: 87 mm
	w: 35 mm
	h: 110 mm
TSPC 480 Watt	l: 87 mm
	w: 35 mm
	h: 110 mm



www.tracopower.com/overview/tspc

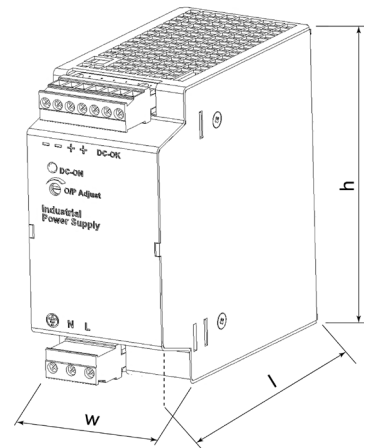
TSP Series

72-600 Watt rugged power supplies in metal casing

- Universal input 85-264 VAC
- Output voltages adjustable
12-14, 24-28, 48-56 VDC
- Remote control signal inputs &
monitoring outputs
- Over-temperature protection
- Safety:
IEC/EN 60079-15 (Class I, Zone 2,
EEx nC II C T4 U, UL 508, EN 60204-1,
EN 50178, EN 61558-2-16
- Options:
- Modules for redundancy, battery
control and blackout buffer
(see page 13-14)
- Wall mounting bracket



TSP 72/90 Watt	l: 110 mm
	w: 35 mm
	h: 110 mm
TSP 180 Watt	l: 110 mm
	w: 54 mm
	h: 110 mm
TSP 360 Watt	l: 125 mm
	w: 80 mm
	h: 125 mm
TSP 600 Watt	l: 125 mm
	w: 165 mm
	h: 125 mm



www.tracopower.com/overview/tsp

TIB Series

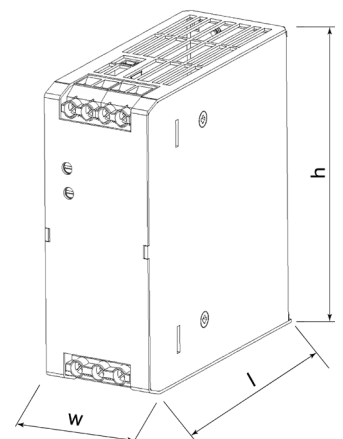
NEW

80-480 Watt rugged power supplies in metal casing

- Universal input 85-264 VAC
- Output voltages adjustable
23-28 VDC
- Active power factor correction
- Excellent efficiency up to 94%
- Slim profile, alternative side
mounting (for flat panels)
- 150% boost power for 4 sec.
- True power back immunity (no
undershoot)
- Safety: UL 60947-1 (replaces UL508)



TIB 80 Watt	l: 98 mm
	w: 32 mm
	h: 114 mm
TIB 120 Watt	l: 119 mm
	w: 36 mm
	h: 125 mm
TIB 240 Watt	l: 119 mm
	w: 48 mm
	h: 125 mm
TIB 480 Watt	l: 119 mm
	w: 82 mm
	h: 125 mm



www.tracopower.com/overview/tib

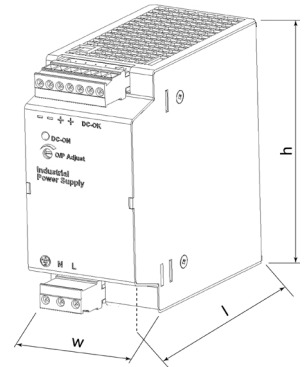
TSP-WR Series

- Input ranges: 85–132 VAC / 187...550
187–264 VAC / 323–550 VAC
- Output voltages adjustable
24-28 VDC
- Over-temperature protection
- Safety:
IEC/EN 60079-15 (II3G, EEx nA IIC T4)
UL 508, EN 60204-1, EN 50178,
EN 61558-2-16
- Options:
- Modules for redundancy, battery
control and blackout buffer
(see page 12-14)
- Wall mounting bracket



180-600 Watt for 3-phase networks

TSP-WR 180 Watt
l: 110 mm
w: 54 mm
h: 110 mm
TSP-WR 360 Watt
l: 125 mm
w: 80 mm
h: 125 mm
TSP 600 Watt
l: 125 mm
w: 190 mm
h: 125 mm



www.tracopower.com/overview/tsp-wr

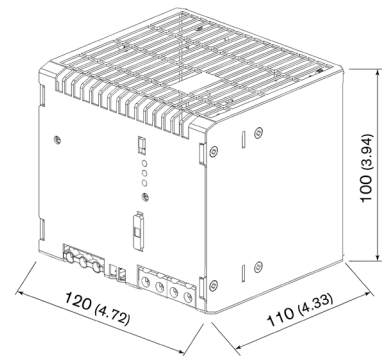
TSPC 240UPS

NEW

- Compact universal 24 VDC power
supply with integrated battery
controller module
- Battery protection for over-voltage,
deep discharge, short circuit and
reverse connection
- Alarm outputs for input, output and
battery condition
- safety:
IEC/EN 60079-15 (II3G, EEx nA IIC T4)
UL 508, EN 60204-1, EN 50178,
EN 61558-2-6/16
- Options:
- Controlled end of charge
voltage by temperature sensor
- Selection of high quality lead-acid
battery packs



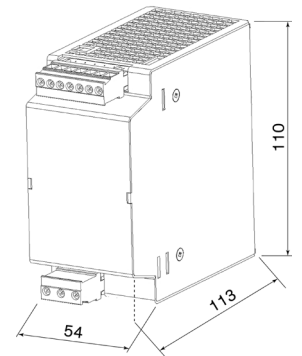
240 Watt DC-UPS power supply



www.tracopower.com/overview/tspc-ups

TSP-BCMU360**NEW****Universal battery controller module up to 360 Watt**

- Universal battery controller module for uninterruptable 24 VDC and 48 VDC bus voltage of any source
- Battery protection for over-voltage, deep discharge, short circuit and reverse connection
- Redundant inputs for two independent sources
- Alarm outputs for input, output and battery condition
- Options:
 - Controlled end of charge voltage by temperature sensor
 - Selection of high quality lead-acid battery packs



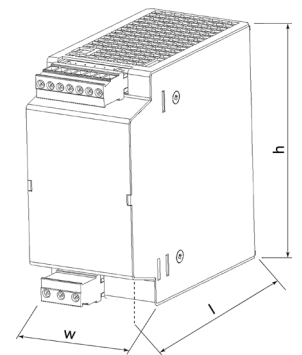
www.tracopower.com/overview/tsp-bcmu

TSP-BCM**Battery controller modules up to 600 Watt**

- Battery controller module in connection to a TSP Series power supply for 12, 24 and 48 VDC
- Battery protection for over-voltage, deep discharge, short circuit and reverse connection
- Alarm outputs for input, output and battery condition
- Options:
 - Controlled end of charge voltage by temperature sensor
 - Selection of high quality lead-acid battery packs



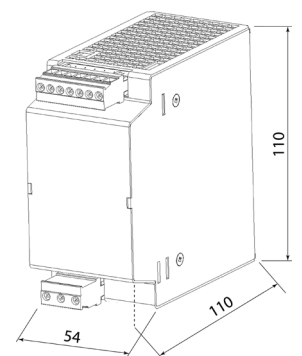
TSP-BCM 360 Watt
 l: 110 mm
 w: 35 mm
 h: 110 mm
 TSP-BCM 600 Watt
 l: 110 mm
 w: 54 mm
 h: 110 mm



www.tracopower.com/overview/tsp

TSP-BFM**Buffer module**

- Module to maintain the output voltage during typical mains faults, short time blackouts or voltage dips
- Capacitor bank for energy storage, no battery needed!
- For 24 to 28 VDC of any source
- Guaranteed hold-up-time 200 ms/25 A to 4 s/1.2 A max.
- Maintenance free, long lifetime, high performance also at low temperature.
- Active ready and inhibit signals



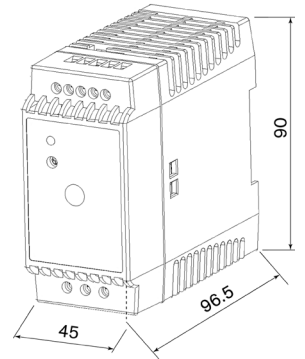
www.tracopower.com/overview/tsp

TPC-REM

- TPC series accessory module
- For 24 or 48 VDC models
- True current sharing on two 120 W rated inputs for output power up to 240 W
- DC-OK signal output
- Robust plastic casing



Redundancy module up to 240 Watt



www.tracopower.com/overview/tpc

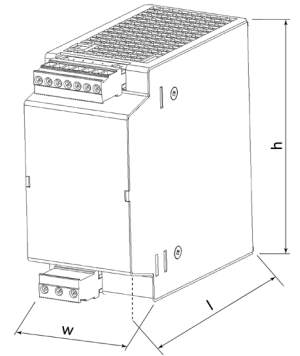
TSP-REM

- TSP series accessory modules
- Hot swappable inputs
- True current sharing on two inputs, each input is rated for the max. output power of 360 or 600 Watt
- Alarm outputs, redundancy OK signal remote On/Off



Redundancy modules up to 600 Watt

TSP-REM 360 Watt
l: 110 mm
w: 35 mm
h: 110 mm
TSP-REM 600 Watt
l: 110 mm
w: 54 mm
h: 110 mm



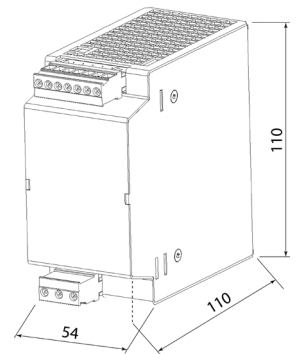
www.tracopower.com/overview/tsp

TSPC-DCM

- Universal decoupling module
- Input voltage range 5 - 28 VDC
- Two inputs, each rated for 25 A
- No remote link to PS
- Rugged metal casing



Decoupling module up to 600 Watt



www.tracopower.com/overview/tspc

TRACO POWER

Solutions

Risk Standards
Requirement Audit
Compliance
Performance Regulations
Safety Rules

With our design house

TRACO POWER SOLUTIONS Ltd.

we have the facility to expeditiously design customized power supplies and to manufacture prototypes and pre-series.

Our design engineers have access to fully equipped and modern test laboratories. It gives us the opportunity to provide solutions adjusted to special demands in terms of compliance, cost, performance and functionality. We initiate high volume production for effective pricing with our qualified manufacturing facilities in Asia while we supervise the production quality.

Our design competence to meet exigence regarding:

- Safety requirements
- EMI compliance
- Electrical specifications
- Form factor, connection, fastening
- Mechanical robustness
- Thermal resistance
- Control features and functionality (logic boards)
- Cost /performance optimization

Our services:

- Research & design
- Commercial and technical support
- Pre-compliance safety and EMI test.
- Mechanical and thermodynamic tests
- HALT and performance test
- 100% functional testing and burn-in
- Project attendance with external test and certification authorities
- Prototyping and volume production of custom designed power supplies
- Production of OEM and white label power supplies

www.tracopower-solutions.com



TRACO POWER – dedicated to design and production of high quality, state-of-the-art AC/DC & DC/DC power conversion products for Industrial, Medical & Railway applications. 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 13+ 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.

International Office

Traco Electronic AG
Sihlbruggstrasse 111
6340 Baar
Switzerland

P +41 43 311 45 11
F +41 43 311 45 45
info@traco.ch

German Office

Traco Electronic GmbH
Oskar-Messter-Str. 20a
85737 Ismaning/München
Germany

P +49 89 96 11 82-0
F +49 89 96 11 82-20
info@traco-electronic.de

North America Office

Traco Power North America, Inc.
2025 Gateway Place #330
San Jose, CA 95110
USA

P +1 (408) 916-4570
F +1 (408) 916-4571
salesusa@tracopower.com

Design & Development

Traco Power Solutions Ltd.
Whitemill Industrial Estate
Whitemill Road, Wexford
Y35 YH66, Ireland

P +353 53 9167 700
F +353 53 9167 701
info@tracopower-solutions.com

Конвертор, преобразователь traco power dc/dc, dc-dc, блок питания Минск тел.+375447584780
www.fotorele.net www.tiristor.by радиодетали, электронные компоненты
email minsk17@tut.by tel.+375 29 758 47 80 МТС

каталог, описание, технические, характеристики, datasheet, параметры, маркировка, габариты, фото, QR код

DC/DC Converters



AC/DC Power Supplies



DIN-Rail

