



**THE DATASHEET OF
TPC 030-105**



Features

- ◆ For industrial, office and residential environments
- ◆ Meets European ErP directive (green mode), <0.3 W no load power consumption
- ◆ High efficiency across full load range
- ◆ Compact plastic casing
- ◆ Reliable snap-on mounting on DIN-rails or with wall mounting bracket (not included)
- ◆ Universal input 85–264 VAC, 47–63 Hz
- ◆ Models with 5, 12, 24 & 48 VDC output
- ◆ Output voltage adjustable
- ◆ Power good signal
- ◆ Low ripple and noise
- ◆ Overload and short-circuit protection
- ◆ Optional module for parallel and redundant operation
- ◆ Worldwide safety approval package
- ◆ 3-year product warranty



The TRACOPOWER TPC series is a family of lightweight DIN-rail power supplies with an excellent price/performance ratio. They consume sparse standby power, and operate with high efficiency to comply with the requirements of the European Ecodesign directive. They have universal input of 85-264VAC or 90-375VDC and are designed for class I operation in industrial and residential environments. With the optional active current sharing redundancy module, these power supplies provide a very reliable true redundant DC supply. For further details see page 3.

Models

Order Code	Input Voltage Ranges	Output Power max.	Output Voltage nominal / adj. range	Output Current max.
TPC 030-105	85 – 264 VAC Universal Input 47/63 Hz	20 W	5.0 VDC / 5.0–6.0 VDC	4.0 A
TPC 030-112		26 W	12 VDC / 12–15 VDC	2.2 A
TPC 030-124		30 W	24 VDC / 24–28.8 VDC	1.25 A
TPC 030-148		30 W	48 VDC / 48–56 VDC	0.6 A
TPC 055-112	90 – 375 VDC	42 W	12 VDC / 12–15 VDC	3.5 A
TPC 055-124		55 W	24 VDC / 24–28.8 VDC	2.3 A
TPC 055-148		55 W	48 VDC / 48–56 VDC	1.15 A
TPC 080-112		72 W	12 VDC / 12–15 VDC	6.0 A
TPC 080-124		80 W	24 VDC / 24–28.8 VDC	3.3 A
TPC 080-148		80 W	48 VDC / 48–56 VDC	1.7 A
TPC 120-112		96 W	12 VDC / 12–15 VDC	8.0 A
TPC 120-124		120 W	24 VDC / 24–28.8 VDC	5.0 A
TPC 120-148		120 W	48 VDC / 48–56 VDC	2.5 A

Input Specifications

Input voltage range	<ul style="list-style-type: none"> - AC nominal rated - AC range (designed for) - DC nominal rated - DC range (designed for) 	110 – 240 VAC, 50-60 Hz 85 – 264 VAC, 47-63 Hz 130 – 300 VDC 90 – 375 VDC
Output derating	<ul style="list-style-type: none"> - at operation <100 VAC - at operation <130 VDC 	-2.5% /V -1.0% /VDC
Standby power consumption	TPC 030 and 055 models: TPC 080 and 120 models:	< 0.3 W < 0.5 W
Harmonic limits		EN 61000-3-2, Class A
Recommended circuit breaker, characteristic C		6.0 – 16.0 A

Output Specifications

Output voltage adjustable range (potentiometer on frontpanel)	5 VDC model: 12 VDC models: 24 VDC models: 48 VDC models:	5.0 – 6.0 VDC 12 – 15 VDC 24 – 28.8 VDC 48 – 56 VDC
Regulation	<ul style="list-style-type: none"> - Input variation - Load variation (0-100 %) 	0.5 % max. 5 VDC models: 0.75 % max. other models: 0.5 % max.
Ripple and noise (20MHz bandwidth)		100 mVpk-pk max.
Short circuit protection		<200 % of lout nom.
Overvoltage protection (% of max. adjustable voltage)	5 VDC model: 12 VDC models: 24 VDC models: 48 VDC models:	<180 % <170 % <160 % <107 %
Power back immunity		125 % of nominal Vout
Start-up time		2 sec. max.
Hold-up time (115 VAC / 230 VAC)		min. 15 ms / min. 40 ms
Power OK signal	<ul style="list-style-type: none"> - trigger - PNP open collector max. current 	80 – 95 % 48 VDC models: 5 mA other models: 10 mA

General Specifications

Temperature ranges	<ul style="list-style-type: none"> - Operating - Storage (non operating) 	-25°C to +70°C max. -25°C to +85°C
Temperature derating		2.5 %/K above 50°C
Humidity (non condensing)		95 % rel. H max.
Temperature coefficient		0.02 %/K
Remote On/Off		10 mA current source
Efficiency (average at power consumption 25-100%)	TPC 030-105: other 30 Watt models: other models:	79 % 84 % 87 %
Reliability, calculated MTBF at +25°C (according to IEC-1709)	TPC 030 models: TPC 055 models: TPC 080 models: TPC 120 models:	>2.2 Mio h >1.7 Mio h >1.5 Mio h >1.3 Mio h
Isolation voltage (60 s)	- Input / Output	3000 VAC
Altitude during operation		2'000 m max.

General Specifications

Safety standards	<ul style="list-style-type: none"> - CB test certificate - SIQ type approved - CSA certificate of compliance - UL certificate of compliance - SIQ type approved - Certification documents 	<p>IEC 60950-1:2005 2nd Ed, Am 1:2009 IEC/EN 61010-1, IEC 61010-2:201 EN 60950-1 :2006 + Am 1 :2010 + Am 11 :2009 + Am 12:2011 IEC/EN 61010-1, IEC/EN 61010-2:201 UL 60950-1-2nd Ed CSA 60950-1-07-2nd Ed UL 508, CSA C22.2 No.107:1-01 EN 60204-1:2006 + A1:2009, EN 61558-2-8:2010, EN 61558-2-16:2009, EN 50178:1997</p> <p>www.tracopower.com/overview/tpc</p>
Environmental compliance	<ul style="list-style-type: none"> - Reach declaration document - RoHS 	<p>www.tracopower.com/info/reach-declaration.pdf RoHS directive 2011/65/EU</p>
EMC	<ul style="list-style-type: none"> - emissions - immunity 	<p>IEC 61000-6-3 (residential environment) IEC 61000-6-2 (industrial environment) SEMI F47</p>
Class of protection		class I (earth connection needed)
Case protection		IP 20 (IEC 60529)
Enclosure material		Makrolon 2405 (UL 94V-0 rated)
Mounting		DIN-rails as per EN 50022-35x15/7.5 (snap-on with self-locking spring) wall mounting bracket optional (not included)

Supporting documents: www.tracopower.com/overview/tpc

TPC-REM240-24 Redundancy Module

Order Code	Nominal Input Voltage	Max Power per Input	Output Voltage adjustable	Output Current max.
TPC-REM240-24	24 VDC	120 W	24 – 27 VDC	10 A
TPC-REM240-48	48 VDC		48 – 55 VDC	5 A

These modules are external units for operation with two TPC power supplies with output voltage of 24 VDC or 48 VDC and of same type and power. The modules allow to connect two outputs of TPC power supplies together in order to achieve a reliable DC supply. In normal operation the module achieves equal current share for both power supplies connected. During the redundancy operation, if one of the power supplies fails, the output power will be provided in full by the remaining operating power supply. The redundancy of the DC system is monitored by a DC-OK signal.



Specifications

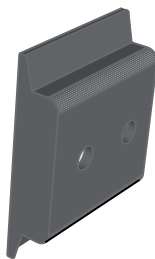
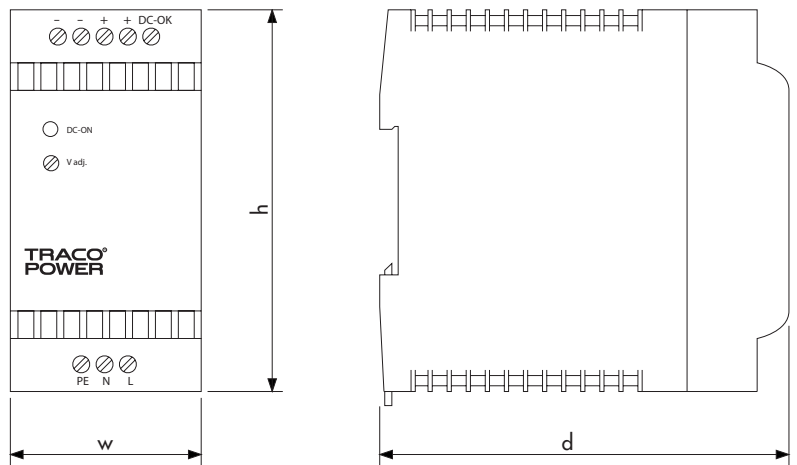
Operating temperature		-25°C to +70°C max. (with derating)
Electromagnetic compatibility		in correspondence to connected units (no internal switching device)
Dimensions		same as model TPC 055 (see page 4)
Connection		screw terminal block
Installation instructions	- installation document	www.tracopower.com/overview/tpc

All specifications valid at nominal input voltage, full load and +25°C after warm-up time unless otherwise stated.

Case Dimensions

Model	Width (W)	Height	Depth d	Weight
TPC 030	26.5 (1.04)	90 (3.54)	96.5 (3.80)	160 g
TPC 055	45.0 (1.77)	90 (3.54)	96.5 (3.80)	260 g
TPC-REM 240-24	45.0 (1.77)	90 (3.54)	96.5 (3.80)	160 g
TPC 080	63.0 (2.48)	90 (3.54)	96.5 (3.80)	360 g
TPC 120	72.0 (2.83)	90 (3.54)	110.0 (4.33)	440 g

Dimensions in [mm], () = Inch
Tolerances: ±0.5 mm (±0.02)





Snap-on bracket for wall mounting (black plastic)

Wall Mounting Bracket (accessories not included)		
Order Code	For Models	Dimensions
TPC-WMK1	TPC 030-xx	26.0 x 35 x 7.5
TPC-WMK2	TPC 055-xx, TPC-REM 240-24	42.7 x 35 x 7.5
TPC-WMK3	TPC 080-xx	60.7 x 35 x 7.5
TPC-WMK4	TPC 120-xx	69.7 x 35 x 7.5

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