

Industrial Power Supplies

TPC Series, 30 to 120 Watt

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	Output Power	Output Voltage	Output Current
	Ranges	max.	nominal /adj. range	max.
TPC 030-105		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	85 – 264 VAC	30 W	48 VDC /48-56 VDC	0.6 A
TPC 055-112	Universal Input	42 W	12 VDC / 12-15 VDC	3.5 A
TPC 055-124	47/63 Hz	55 W	24 VDC /24-28.8 VDC	2.3 A
TPC 055-148	90 – 375 VDC	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



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Input Specifications				
Input voltage range	AC nominal ratedAC range (designed for)DC nominal ratedDC range (designed for)			110 – 240 VAC, 50-60 Hz 85 – 264 VAC, 47-63 Hz 130 – 300 VDC 90 – 375 VDC
Output derating	at operation <100 VACat operation <130 VDC			-2.5% /V -1.0% /VDC
Standby power consumption			nd 055 models: nd 120 models:	
Harmonic limits				EN 61000-3-2, Class A
Recommended circuit breake	er, characteristic C			6.0 – 16.0 A
Output Specifications	;			
Output voltage adjustable ro (potentiometer on frontpanel)		24	2 VDC models:	24 – 28.8 VDC 48 – 56 VDC
Regulation	Input variationLoad variation (0–100 %))	5 VDC models: other models:	
Ripple and noise (20MHz b	andwidth)			100 mVpk-pk max.
Short circuit protection				<200 % of lout nom.
Overvoltage protection (% o	f max. adjustable voltage)	2	5 VDC model: 2 VDC models: 4 VDC models: 8 VDC models:	<170 % <160 %
Power back immunity				125 % of nominal Vout
Start-up time				2 sec. max.
Hold-up time (115 VAC / 23	30 VAC)			min. 15 ms / min. 40 ms
Power OK signal	triggerPNP open collector max.	current 4	8 VDC models: other models:	80 - 95 % 5 mA 10 mA
General Specification	ns			
Temperature ranges	OperatingStorage (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%)	other 30	TPC 030-105: O Watt models: other models:	79 % 84 % 87 %
Reliability, calculated MTBF (according to IEC-1709)	at +25°C	TP0	C 030 models: C 055 models: C 080 models: C 120 models:	>1.7 Mio h >1.5 Mio h
Isolation voltage (60 s)	- Input / Output			3000 VAC
Altitude during operation				2′000 m max.



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General Specification	ns	
Safety standards	- CB test certificate	IEC 60950-1:2005 2nd Ed, Am 1:2009
	– SIQ type approved	IEC/EN 61010-1, IEC 61010-2-201 EN 60950-1 :2006 + Am 1 :2010 + Am 11 :2009 + Am 12:2011
	- CSA certificate of compliance	IEC/EN 61010-1, IEC/EN 61010-2-201 UL 60950-1-2nd Ed
	– UL certificate of compliance	CSA 60950-1-07-2nd Ed UL 508, CSA C22.2 No.107.1-01
	- SIQ type approved	EN 60204-1:2006 + A1:2009, EN 61558-2-8:2010, EN 61558-2-16:2009, EN 50178:1997
	- Certification documents	www.tracopower.com/overview/tpc
Environmental compliance	– Reach declaration document – RoHS	www.tracopower.com/info/reach-declaration.pdf RoHS directive 2011/65/EU
EMC	emissionsimmunity	IEC 61000-6-3 (residential environment) IEC 61000-6-2 (industrial environment) SEMI F47
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 VDCand 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

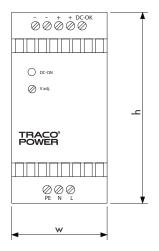
All specifications valid at nominal input voltage, full load and +25°C after warm-up time unless otherwise stated.

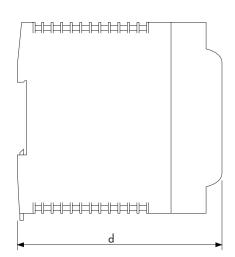


Case Dimensions

Model	Width (W)	Heigth	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		

Mouser Electronics

Authorized Distributor

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TRACO Power:

TPC 055-148 TPC 030-124 TPC 080-148 TPC 030-148 TPC 120-112 TPC 120-148 TPC 030-105 TPC-JC TPC 030-112 TPC 055-112 TPC 080-124 TPC-WMK3 TPC 120-124 TPC 055-124 TPC 080-112 TPC WMK4 TPC-WMK1