

- ◆ Rugged metal case for harsh industrial environments
- ◆ Industrial operating temperature range: -25°C to +70°C
- ◆ Overload and overtemperature protection
- ◆ Power boost up to 120 %
- ◆ Power-Good signal
- ◆ Shock and vibration proof
- ◆ International safety approval package
- ◆ ATEX certification for hazardous locations
- ◆ Decoupling module for redundant operation (optional)
- ◆ Wall mounting (opt.)
- ◆ 3-year product warranty



The TSPC series are high performance DIN-rail mount power supplies for harsh industrial environments. The design is based on the popular TRACOPOWER TSP series but with reduced electrical features to make these power supplies an easy to install and cost efficient but reliable solution for basic applications. Excellent electrical specifications and high immunity against electrical disturbances makes these compact modules the best choice for reliable industrial systems and machines.

For system applications all models provide a Power-Good signal. The TSPC series power supplies complies with the latest safety and EMC standards for industrial environments and include ATEX EN 60079 certification and IEC 60079 test report for applications in hazardous locations.

Models

Order code	Output power nominal	Output voltage nominal	Output current nominal
TSPC 080-124	80 W	24 VDC	3.3 A
TSPC 120-124	120 W		5.0 A
TSPC 240-124	240 W		10 A
TSPC 480-124	480 W		20 A

Accessories (optional)



Decoupling module for redundant operation see: www.tracopower.com/products/tspc-dcm.pdf

Wall mounting brackets: see last page

Input Specifications

Input voltage	– nominal ranges – effective ranges – output power derating at input <100 VAC	100 – 120 / 220 – 240 VAC by selection switch 85 – 132 / 187 – 264 VAC 3.3 %/V
Input voltage frequency		47 – 63 Hz
Harmonic limits		EN 61000-3-2
Holdup time		10 ms min.
Inrush current		40 A
Recommended circuit breaker, characteristic C or fuse, slow blow type	– TSP 080/120 – TSP 240 – TSP 480	6.0 – 16.0 A 10.0 – 16.0 A 16.0 – 25.0 A
Efficiency		85 – 92 %


Output Specifications

Output voltage adj. range	– output power derating above 24 VDC	24 – 28 VDC 5 %/V
Boost output current	– power derating above 50°C ambient – power derating at input <115 VAC – power derating at input <220 VAC	120 % (at 24 VDC output voltage) continuous at <+50°C ambient temperature 2 %/°C 1.3 %/V 0.6 %/V (at upper input voltage range)
Regulation	– Input variation – Load variation (0–100 %)	1 % max. 1 % max.
Ripple and Noise (20MHz bandwidth)		100 mVp-p typ. (200 mVp-p max.)
Overload protection		120 – 140 % of I _{out} nom., constant current
Short circuit current		90 % of I _{out} nom. (typ.), foldback
Output overvoltage protection		45 V
Overtemperature protection		switch off at overtemperature, automatic restart
Power back immunity		35 V (40 V for 1 sec.)
Power OK signal	– trigger threshold: – output signal	21.0 – 22.5 V open collector 10 mA max.
Max. capacitive load		unlimited

General Specifications

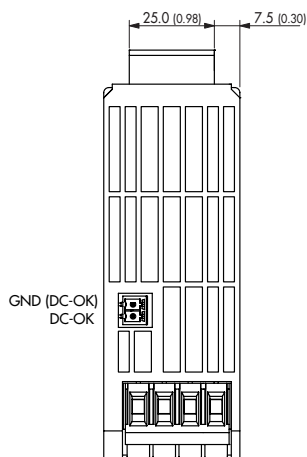
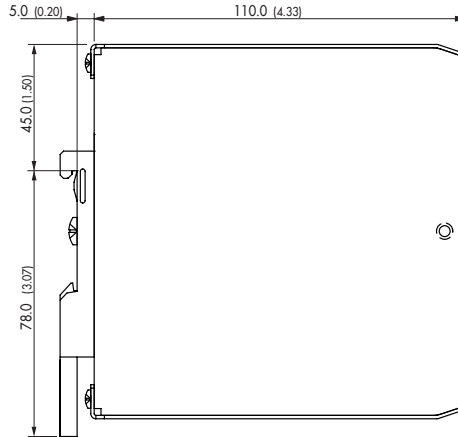
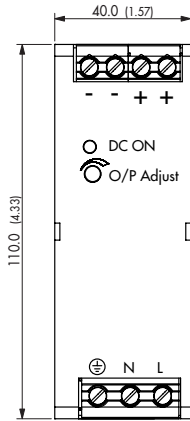
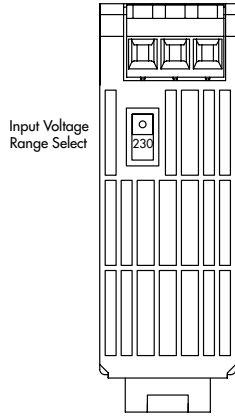
Temperature range	– Operating – output current derating above 60°C ambient – Storage	–25°C to +70°C max. 2.5 %/°C –40°C to +85°C
Cooling		convection cooling, no internal fan
Humidity (non condensing)		95 % rel. H max.
Pollution degree		2
Temperature coefficient		0.02 %/K
Reliability, calculated MTBF at +25°C acc. to IEC 61709 www.tracopower.com/products/tspc-mtbf.pdf	– TSP 080 – TSP 120 – TSP 240 – TSP 480	2.4 Mio. h 2.5 Mio. h 1.7 Mio. h 1.4 Mio. h

General Specifications

Isolation		according to IEC/EN 60950-1, UL 60950-1, UL 508
Safety standards	<ul style="list-style-type: none"> – Information technology equipment – Industrial control equipment – Electrical equipment for machines – Electronic equipment for power installation – Safety transformers for SMPS – Control equipment for hazardous location 	IEC/EN 60950-1, UL 60950-1, CSA 22.2 No 60950-1-07 UL 508, CSA-C22.2 No.107 EN 60204-1 EN 50178 EN 61558-2-4 IEC/EN 60079-15  II3G EX nA IIC T4
Safety approvals and certifications	<ul style="list-style-type: none"> – CB scheme (IEC/EN 60950-1) – UL approvals – ATEX (for IP 54 enclosure) – IECEx certificate (IEC 60079-0, IEC 60079-15) – BG certificate (IEC/EN 60950-1) 	www.tracopower.com/products/tspc-cb.pdf UL 60950-1, CSA 22.2 No. 60950-1-07 www.tracopower.com/products/tspc-ul60950.pdf UL 508C listed File: e210002 www.tracopower.com/products/tspc-ul508.pdf certificate no. EPS 10 ATEX 1 269 X www.tracopower.com/products/tspc-atex.pdf www.tracopower.com/products/tspc-iecex.pdf www.tracopower.com/products/tspc-bg.pdf
Class of protection		safety class I (IEC 536)
Degree of protection		IP 20 (IEC/EN 60529)
Electromagnetic compatibility (EMC), Emissions	<ul style="list-style-type: none"> – Conducted RI suppression on input – Radiated RI suppression 	EN 61000-6-3, EN 61204-3 EN 55011 class B, EN 55022 class B, EN 55011 class B, EN 55022 class B,
Electromagnetic compatibility (EMC), Immunity	<ul style="list-style-type: none"> – Electrostatic discharge (ESD) – Radiated RF field immunity – Electrical fast transient / burst immunity – Surge immunity – Immunity to conducted RF disturbances – Power frequency field immunity – Mains voltage dips and interruptions 	EN 61000-6-2, EN 61204-3 IEC/EN 61000-4-2 4 kV / 8 kV criteria B IEC/EN 61000-4-3 10 V / m criteria A IEC/EN 61000-4-4 2 kV criteria B IEC/EN 61000-4-5 1 kV / 2 kV criteria B IEC/EN 61000-4-6 10 V criteria A IEC/EN 61000-4-8 30 A / m criteria A IEC/EN 61000-4-11 criteria B/C
Environment	<ul style="list-style-type: none"> – Vibration acc. IEC 68-2-6; – Shock acc. IEC 60068-2-27 	3 axis, sine sweep, 10 – 55 Hz, 1 g, 1 oct/min 3 axis, 15 g half sine, 11 ms
Enclosure material		aluminium (chassis) / stainless steel (cover)
Mounting	<ul style="list-style-type: none"> – DIN-rail mounting – Wall mounting (option) 	for DIN-rails as per EN 50022-35x15/7.5 (snap-on with self-locking spring) with wall mounting bracket - see page 12
Environmental compliance	<ul style="list-style-type: none"> – Reach – RoHS 	www.tracopower.com/products/tspc-reach.pdf RoHS directive 2011/65/EU
Power Good signal		21.0 – 22.5 V, open collector 10 mA
Connection	<ul style="list-style-type: none"> – Input / Output – Power Good signal (mating connector) 	screw terminals Phoenix contact MC 1,5/2-ST-3,5 (not included)
Installation instructions		www.tracopower.com/products/tspc-inst.pdf

Outline Dimensions

TSPC 080-124

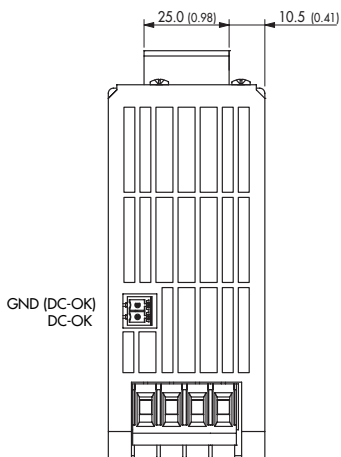
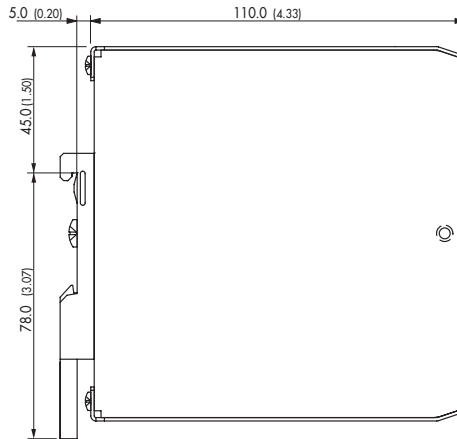
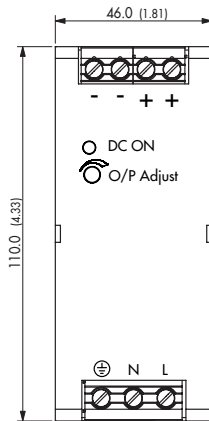
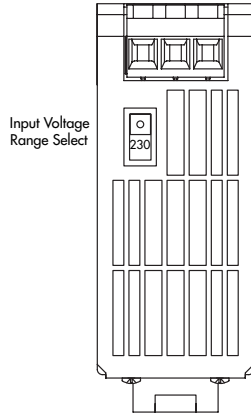


Weight: 400 g (14.1 oz)

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

Outline Dimensions

TSPC 120-124

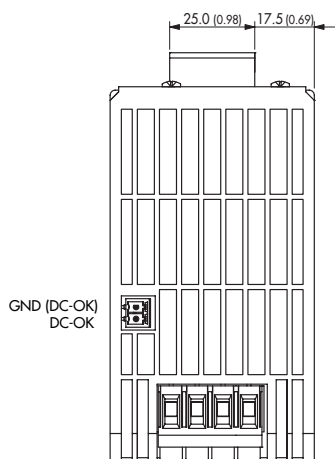
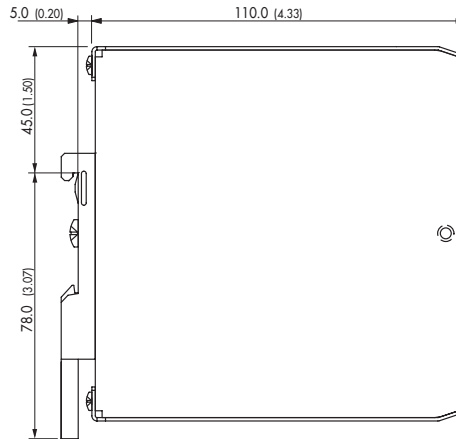
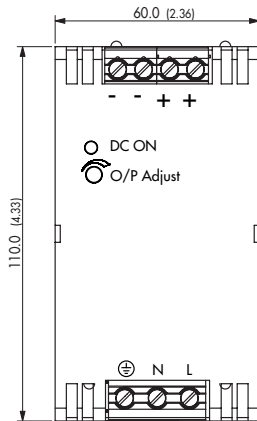
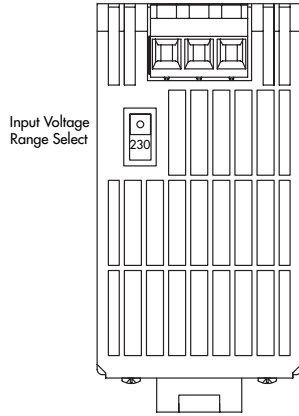


Weight: 500 g (17.7 oz)

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

Outline Dimensions

TSPC 240-124

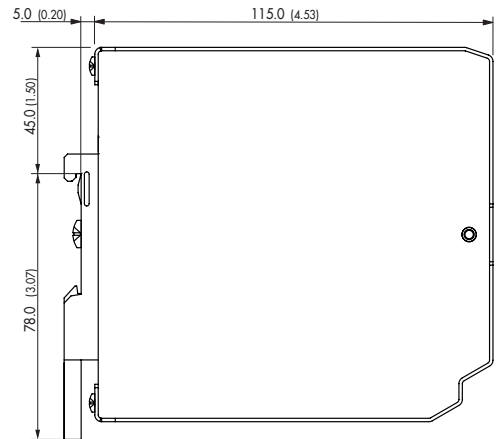
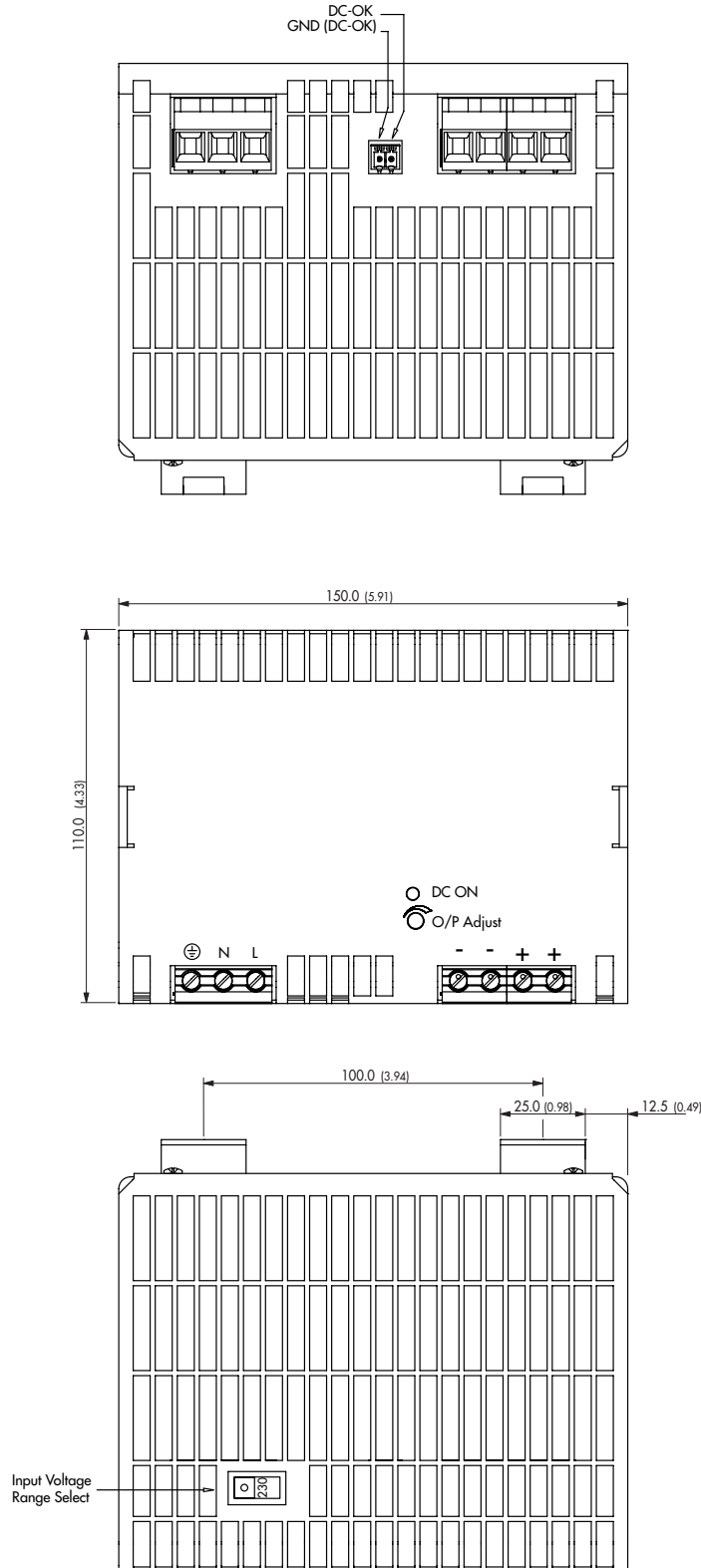


Weight: 750 g (26.5 oz)

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

Outline Dimensions

TSPC 480-124



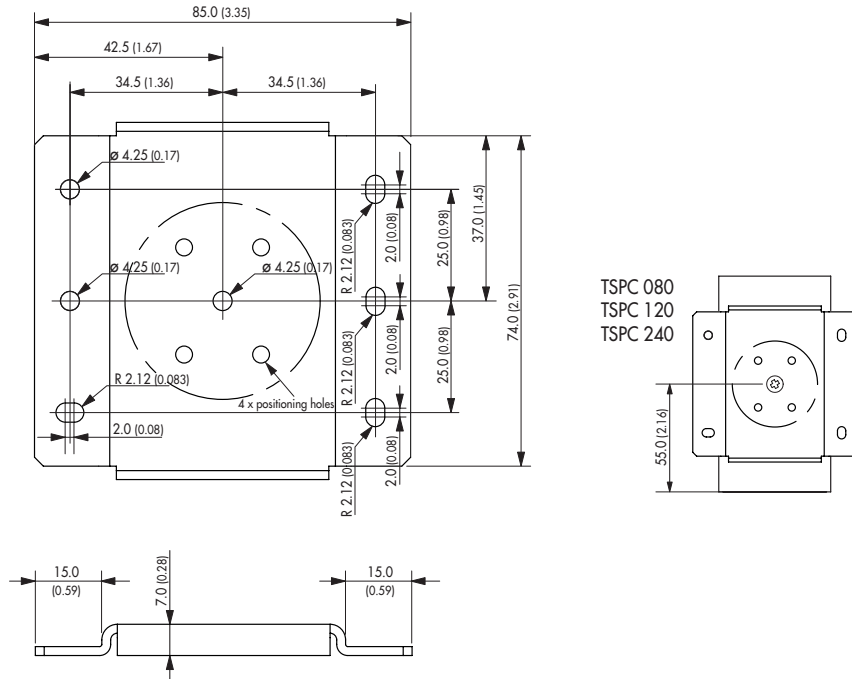
Weight: 1950 g (68.8 oz)

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

TSP-WMK Wall Mounting Bracket

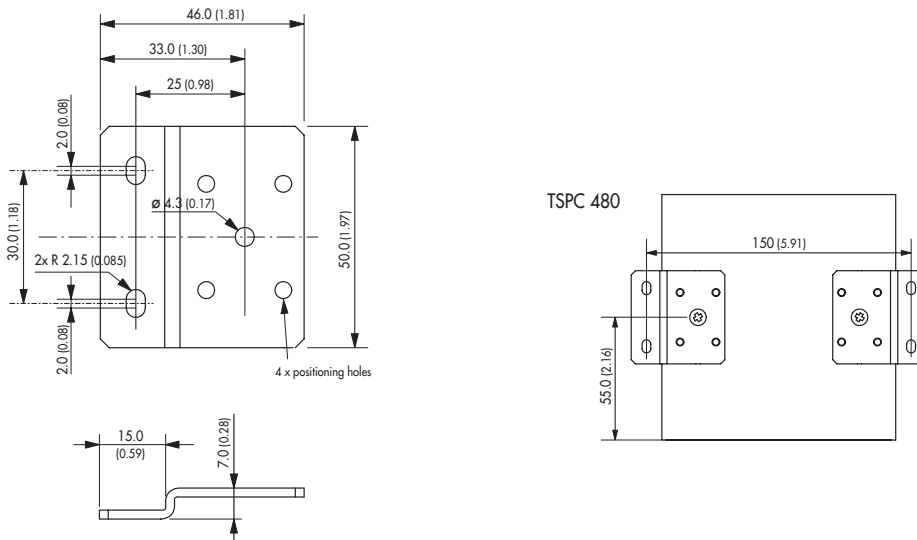
order code	for models	content of kit
TSP-WMK03	TSPC 080, TSPC 120, TSPC 240, TSP-DCM600	1 bracket
TSP-WMK02	TSPC 480	2 brackets

TSP-WMK03



Material: 2 mm Mild Steel
Tolerance: ± 0.1 mm (± 0.004)

TSP-WMK02



Material: 2 mm Mild Steel
Tolerance: ± 0.1 mm (± 0.004)

Dimensions: [mm] () = Inch

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

Specifications can be changed without notice! Make sure you are using the latest documentation, downloadable at www.tracopower.com



Стандарт Электрон Связь

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