

Industrial Power Supplies

TEX Series, 120 Watt

Features

- Rugged power supplies for harsh outdoor environments
- Die-cast aluminium housing
- Dust, water (incl. salt water), ice and oil resistant enclosure
- IP67 and NEMA 4X rated
- Connection via waterproof I/O plug-connectors
- Shock & vibration proof construction
- ◆ Operating temp. range -40°C to +85°C
- Universal input 85 to 264 VAC
- Output voltage adjustable
- DC-OK indicator
- Low ripple and noise
- Worldwide safety approvals
- Class I, zone 2 approval incl. ATEX certification (tested in accordance to IECEx)
- 3-year product warranty

















These power supplies have been designed particularly for applications in extreme environments. The rugged die-cast aluminium housing is water, ice, oil and dust resistant in compliance with IP67 and NEMA 4X standards. The metal case works as an efficient heatsink allowing full power operation at up to +60°C ambient temperature (no fan required). With a shock and vibration proof construction the power supplies can be mounted directly on a machine.

An International safety approval package includes CB scheme as well as ATEX certification applications in hazardous locations i.e in chemical or food processing industries. The TEX series offers a cost efficient solution for de-centralized power systems in industrial automation applications with critical environment conditions.

Models			
Order Code	Output Power	Output Voltage*	Output Current
	(max.)	(nom.)	(max.)
TEX 120-112	96 W	12 VDC	8.0 A
TEX 120-124	120 W	24 VDC	5.0 A

^{*} adjustable



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Input Specifications		
Input voltage	- nominal	100 – 240 VAC
mpor vollage	- AC range	85 – 264 VAC
	- DC range	85 – 375 VDC (power derating tba.)
Input frequency		47 – 63 Hz
Harmonic limits		EN 61000-3-2, Class A
Input current at full load	d (typ.)	1.0 A at 230 VAC, 2.0 A at 115 VAC
Recommended circuit b	reaker (characteristic C or slow blow fuse)	5.0 A
Output Specificat	ions	
Output voltage adjustal	ple range 12 VDC model: 24 VDC model:	
Output regulation (10 to	o 90% load variation)	2.5 %
Ripple and noise (20M)	Hz bandwidth)	<50 mV pk-pk
Electronic short circuit protection		current limitation at 110 % typ. (automatic recovery)
Output overvoltage pro	tection	<40 V
Hold-up time		>20 ms
General Specifica	itions	
Temperature range	- Operating	-40°C to +85°C max.
	Rated for ATEX certificationStorage	-40°C to +70°C max. -40°C to +85°C max.
Power derating	- Slotage	above 60°C 2.0 %/K
Safety standards	- Information technology equipment	IEC/EN 60950-1
	- Control equipment for hazardous location - Electrical equip. for potentially explosive atmospheres - Industrial control equipment - Electrical equip. for measurement, control, laboratory - Electrical equipment for machines - Electronic equipment for power installation - Safety transformers	UL File e213613 (Class I, Division 1 & 2, group A, B, C & D, T4) IEC/EN 60079-15 (Class I, Zone 2, EEx nA IIC T4) UL 508, File e210002 IEC/EN 61010-1, C22.2 61010-1-12, UL 61010-1 3rd EN 60204-3 EN 50178 EN 61558-2-8
Safety approvals and certifications	 UL 508 UL Hazloc CB test certificate IEC 60950-1 SIQ certificate EN 60950-1, EN 60204, EN50178 CB test certificate IEC 61010-1:2010 (3rd-edition) SIQ certificate EN 61010-1:2010 CSA certificate UL 61010-1 (3rd-edition) ATEX, EN 60079-15 	www.tracopower.com/products/tex120-ul508.pdf www.tracopower.com/products/tex120-hazloc.pdf www.tracopower.com/products/tex120-cb.pdf www.tracopower.com/products/tex120-en.pdf www.tracopower.com/products/tex120-cb61010.pdf www.tracopower.com/products/tex120-en61010.pdf www.tracopower.com/products/tex120-csa61010.pdf www.tracopower.com/products/tex120-atex.pdf
Electromagnetic compatibility (EMC), emissions		EN 61000-6-3
	Conducted RI suppression on inputRadiated RI suppressionHarmonic limits	EN 55022 class B EN 55022 class B EN 61000-3-2, Class A
Electromagnetic compa	tibility (EMC), immunity - Electrostatic discharge (ESD) - Radiated RF field immunity - Electrical fast transient / burst immunity input - Electrical fast transient / burst immunity output - Surge immunity line – neutral - Surge immunity line – ground - Surge immunity neutral – ground - Surge immunity output - Immunity to conducted RF disturbances - Mains voltage dips and interruptions	EN 61000-6-2 EN 61000-4-2, 8 kV / 15 kV, perf. criteria A EN 61000-4-3, 10 V/m, perf. criteria A EN 61000-4-4, 4 kV, perf. criteria A EN 61000-4-4, 2 kV, perf. criteria A EN 61000-4-5, 4 kV, perf. criteria A EN 61000-4-5, 2 kV, perf. criteria A EN 61000-4-5, 4 kV, perf. criteria A EN 61000-4-5, 0.5 kV, perf. criteria A EN 61000-4-6, 10 V, perf. criteria A EN 61000-4-11, 30 % /10 mS, criteria B, EN 61000-4-11, 60 % /100 mS, criteria C

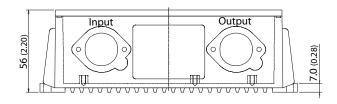
All specifications valid at nominal input voltage, full load and +25°C after warm-up time unless otherwise stated.

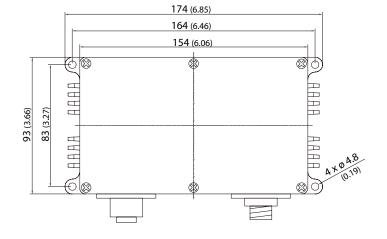


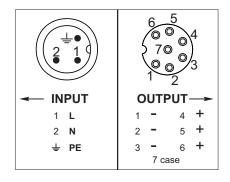
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Safety class		degree of protection class I
Case protection	 Degree of protection (IP67) Water intrusion test Dust test Icing test Oil exclusion test Salt spray test Gasket aging test Hosedown test 	IP 67 (IEC 60529), NEMA 4X rated, UL 50 www.tracopower.com/products/tex120-ip.pdf www.tracopower.com/products/tex120-water.pdf www.tracopower.com/products/tex120-dust.pdf www.tracopower.com/products/tex120-icing.pdf www.tracopower.com/products/tex120-oil.pdf www.tracopower.com/products/tex120-salt.pdf www.tracopower.com/products/tex120-aging.pdf www.tracopower.com/products/tex120-hose.pdf
Humidity		up to 100 % rel. H with condensation
Reliability (calculated MTE	BF at +40°C according IEC 61709)	>900′000h
Environment	VibrationShock	IEC 60068-2-6, 3 axis, sine sweep, 10–55Hz, 1g, 1 oct/min IEC 60068-2-27, 3 axis, 15g half sine, 11ms
Environmental compliance	e - Reach - RoHS	www.tracopower.com/overview/tex120 RoHS directive 2011/65/EU
Altitude		3000 m max . (10′000 ft)
Installation instructions		www.tracopower.com/products/tex120-inst.pdf

Case Dimensions







Connectors not included in shipment!

(Units are supplied with sealing connector caps)

Material: die-cast aluminium Weight: 1000 g (35.3 oz)

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

Accessories *	
TEX-P11	AC Input connector: Binder 3-pin female circular plug 99-4222-14-04
TEX-P21	DC Output connector: Binder: 7-pin male circular plug 99-4225-160-07
TEX-C11	TEX-IP-ASSY Input cable assembly 2m, (wire to pin reference comes with cable)
TEX-C21	TEX-OP-ASSY Output cable assembly 2m, (wire to pin reference comes with cable)

^{*} Units delivered before mid 2010 are equipped with Amphenol sockets see: www.tracopower.com/products/tex120-amphenol.pdf

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



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