

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
- 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 and IECEx test report of conformity for 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



Industrial Power Supplies TEX 120 Series 120 Watt

Input Specification	s	
Input voltage	– nominal – AC range – DC range	100 – 240 VAC 85 – 264 VAC 85 – 375 VDC (power derating tba.)
Input frequency	0	47 – 63 Hz
Harmonic limits		EN 61000-3-2, Class A
Input current at full load	(typ.)	1.0 A at 230 VAC, 2.0 A at 115 VAC
Recommended circuit bre	eaker (characteristic C or slow blow fuse)	5.0 A
Output Specification	ons	
Output voltage adjustable		sl: 12 – 15 VDC sl: 24 – 28 VDC
Output regulation (10 to	90% load variation)	2.5 %
Ripple and noise (20MH.	z bandwidth)	<50 mV pk-pk
Electronic short circuit protection		current limitation at 110 % typ. (automatic recovery)
Output overvoltage prote	ection	<40 V
Hold-up time		>20 ms
General Specificat	ions	
Temperature range	OperatingRated for ATEX certificationStorage	−40°C to +85°C max. −40°C to +70°C max. −40°C to +85°C max.
Power derating		above 60°C 2.0 %/K
Safety standards	 Information technology equipment Control equipment for hazardous location Electrical equip. for potentially explosive atmosphere Industrial control equipment Electrical equip. for measurement, control, laborator Electrical equipment for machines Electronic equipment for power installation Safety transformers 	UL 508, File e210002
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 IECEx test report IEC 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-en61010.pdf www.tracopower.com/products/tex120-en61010.pdf www.tracopower.com/products/tex120-csa61010.pdf www.tracopower.com/products/tex120-atex.pdf www.tracopower.com/products/tex120-iecex.pdf
Electromagnetic compatil	bility (EMC), emissions - Conducted RI suppression on input - Radiated RI suppression - Harmonic limits	EN 61000-6-3 EN 55022 class B EN 55022 class B EN 61000-3-2, Class A
Electromagnetic compatil	bility (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

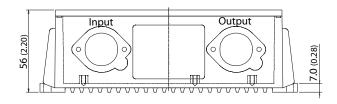
All specifications valid at nominal input voltage, full load and $+25^{\circ}$ C after warm-up time unless otherwise stated.

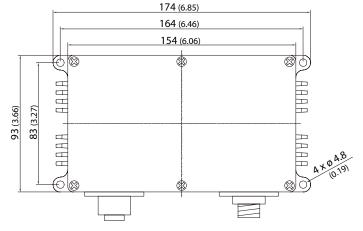


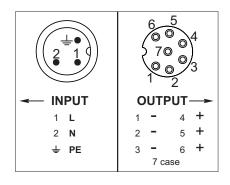
Industrial Power Supplies TEX 120 Series 120 Watt

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 MTBF 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	– Reach – RoHS	www.tracopower.com/products/tex-reach.pdf 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