

### **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

<sup>\*</sup> adjustable



# Industrial Power Supplies TEX 120 Series 120 Watt

Input Specification Input voltage		100 – 240 VAC
input voitage	– nominal – AC range	100 – 240 VAC 85 – 264 VAC
	– DC range	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
<u>'</u>	eaker (characteristic C or slow blow fuse)	5.0 A
Output Specificati	ons	
Output voltage adjustab	le range 12 V	DC model: 12 – 15 VDC DC model: 24 – 28 VDC
Output regulation (10 to	90% load variation)	2.5 %
Ripple and noise (20MH	tz bandwidth)	<50 mV pk-pk
Electronic short circuit pr	rotection	current limitation at 110 % typ. (automatic recovery)
Output overvoltage prot	ection	<40 V
Hold-up time		>20 ms
General Specificat	tions	
Temperature range	- Operating	−40°C to +85°C max.
	- Rated for ATEX certification	-40°C to +70°C max.
n I .:	- Storage	-40°C to +85°C max.
Power derating		above 60°C 2.0 %/K
Safety standards	<ul> <li>Information technology equipment</li> <li>Control equipment for hazardous location</li> <li>Electrical equip. for potentially explosive a</li> <li>Industrial control equipment</li> <li>Electrical equip. for measurement, control,</li> <li>Electrical equipment for machines</li> <li>Electronic equipment for power installation</li> <li>Safety transformers</li> </ul>	UL 508, File e210002
Safety approvals and certifications	<ul> <li>UL 508</li> <li>UL Hazloc</li> <li>CB test certificate IEC 60950-1</li> <li>SIQ certificate EN 60950-1, EN 60204,</li> <li>CB test certificate IEC 61010-1:2010 (3rc</li> <li>SIQ certificate EN 61010-1:2010</li> <li>ATEX, EN 60079-15</li> <li>IECEx test report IEC 60079-15</li> </ul>	
Electromagnetic compat	ibility (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 compat	ibility (EMC), immunity  - Electrostatic discharge (ESD)  - Radiated RF field immunity  - Electrical fast transient / burst immunity inp  - Electrical fast transient / burst immunity ou  - 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	

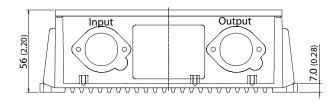
All specifications valid at nominal input voltage, full load and +25°C after warm-up time unless otherwise stated.

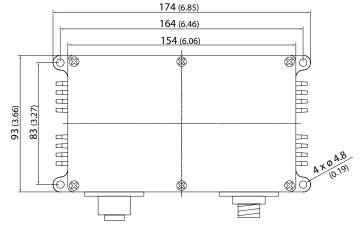


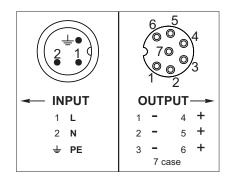
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Safety class		degree of protection class I
Case protection	<ul> <li>Degree of protection (IP67)</li> <li>Water intrusion test</li> <li>Dust test</li> <li>Icing test</li> <li>Oil exclusion test</li> <li>Salt spray test</li> <li>Gasket aging test</li> <li>Hosedown test</li> </ul>	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	<ul><li>Vibration</li><li>Shock</li></ul>	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		<b>3000</b> 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:  $\pm 0.5$  mm ( $\pm 0.02$ )

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)

<sup>\*</sup> 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