Measures: 6.85 x 3.66 x 2.20

## **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



Measures: 6.85 x 3.66 x 2.20"

Input voltage	- nominal	100 – 240 VAC
1 0	- 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	71	1.0 A at 230 VAC, 2.0 A at 115 VAC
	eaker (characteristic C or slow blow fuse)	5.0 A
Output Specification	ons	
Output voltage adjustabl		/DC model: 12 – 15 VDC /DC model: 24 – 28 VDC
Output regulation (10 to	90% load variation)	2.5 %
Ripple and noise (20MH	Iz 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	- Operating	-40°C to +85°C max.
1 0	<ul> <li>Rated for ATEX certification</li> </ul>	$-40^{\circ}$ C to $+70^{\circ}$ C max.
	- 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 of 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>	(Class I, Division 1 & 2, group A, B, C & D, T4 IEC/EN 60079-15 (Class I, Zone 2, EEx nA IIC T- UL 508, File e210002 IEC/EN 61010-1, C22.2 61010-1-12, UL 61010-1 3r EN 60204-3 EN 50178 EN 61558-2-8
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 (3r</li> <li>SIQ certificate EN 61010-1:2010</li> <li>CSA certificate UL 61010-1 (3rd-edition)</li> <li>ATEX, EN 60079-15</li> <li>IECEx test report IEC 60079-15</li> </ul>	
Electromagnetic compati	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 compati	bility (EMC), immunity  - Electrostatic discharge (ESD)  - Radiated RF field immunity  - Electrical fast transient / burst immunity in  - Electrical fast transient / burst immunity o  - 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	

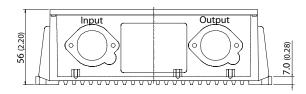
All specifications valid at nominal input voltage, full load and +25°C after warm-up time unless otherwise stated.

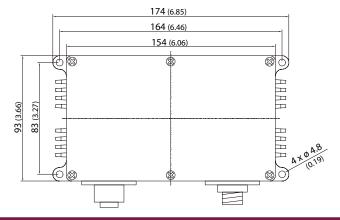


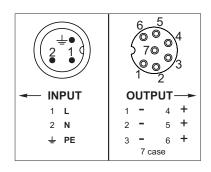
Measures: 6.85 x 3.66 x 2.20"

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 m max</b> . (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