

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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## **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

<sup>\*</sup> adjustable



# Industrial Power Supplies TEX 120 Series 120 Watt

Input Specification		100 040 VAC
Input voltage	- nominal	100 – 240 VAC 85 – 264 VAC
	– AC range – DC range	85 – 264 VAC 85 – 375 VDC (power derating tba.)
Input frequency	DC larige	47 – 63 Hz
Harmonic limits		EN 61000-3-2, Class A
	/L \	·
Input current at full load	**	1.0 A at 230 VAC, 2.0 A at 115 VAC
	reaker (characteristic C or slow blow fuse)	5.0 A
Output Specificati		
Output voltage adjustab	lle range 12 VDC model: 24 VDC model:	
Output regulation (10 to	90% load variation)	2.5 %
Ripple and noise (20MH	1z bandwidth)	<50 mV pk-pk
Electronic short circuit protection		current limitation at 110 % typ. (automatic recovery)
Output overvoltage prot	rection	<40 V
Hold-up time		>20 ms
General Specifica	tions	
Temperature range	- Operating	−40°C to +85°C max.
	- Rated for ATEX certification	$-40^{\circ}$ 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 atmospheres</li> <li>Industrial control equipment</li> <li>Electrical equip. for measurement, control, laboratory</li> <li>Electrical equipment for machines</li> </ul>	IEC/EN 60950-1 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
	<ul><li>Electronic equipment for power installation</li><li>Safety transformers</li></ul>	EN 50178 EN 61558-2-8
Safety approvals and certifications	<ul> <li>UI</li> <li>CB test certificate</li> <li>SIQ certificate</li> <li>CB test certificate</li> <li>SIQ certificate</li> <li>SIQ certificate</li> <li>CSA certificate</li> <li>ATEX</li> <li>Certification documents</li> </ul>	UL 508, HazLoc IEC 60950-1 EN 60950-1, EN 60204, EN50178 IEC 61010-1:2010 (3rd-edition) EN 61010-1:2010 UL 61010-1 (3rd-edition) EN 60079-15 www.tracopower.com/overview/tex120
Electromagnetic compat		EN 61000-6-3
<u> </u>	<ul> <li>Conducted RI suppression on input</li> <li>Radiated RI suppression</li> <li>Harmonic limits</li> </ul>	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 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

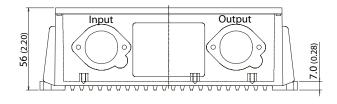
All specifications valid at nominal input voltage, full load and +25°C after warm-up time unless otherwise stated.

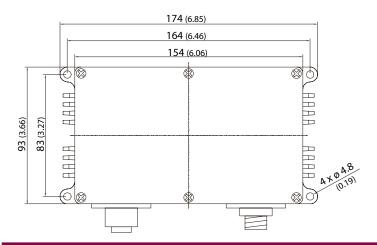


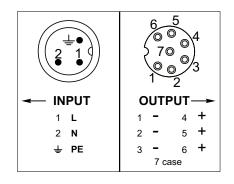
# Industrial Power Supplies TEX 120 Series 120 Watt

Safety class	degree of protection class I  IP 67 (IEC 60529), NEMA 4X rated, UL 50 Degree of protection (IP67) Water intrusion test Dust test Icing test Oil exclusion test Salt spray test Gasket aging test Hosedown test www.tracopower.com/overview/tex120	
Case protection  - Certfication Documents		
Humidity	up to 100 % rel. H with condensation	
Reliability (calculated MTBF at +40°C according IEC 61709)	>900′000h	
Environment – Vibration – Shock	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/info/reach-declaration.pdf RoHS directive 2011/65/EU	
Altitude	<b>3000</b> m max. (10′000 ft)	
Installation instructions	www.tracopower.com/overview/tex120	

### **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

