

### **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

CE CB IP67 Ex







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 and IECEx certificate 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	ns			
Input voltage	– nominal – AC range – DC range		100 – 240 VAC 85 – 264 VAC 85 – 375 VDC (p	power derating tba)
Input frequency			47 – 63 Hz	-
Harmonic limits			EN 61000-3-2, C	Class A
Input current at full load	(typ.)		1.0 A @ 230 VA	C, 2.0 @ 115 VAC
Recommended circuit br	reaker (characteristic C or slow blow fuse)		5.0 A	
Output Specificati	ons			
Output voltage adjustab	le range		12 – 15 VDC 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 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	C max.
Power derating			above +60°C 2.0 %/K	
Humidity			up to 100 % rel.	H with condensation
Reliability (calculated M	TBF according IEC 61709)		>900′000h @ 40	0°C
Altitude			3000 m max. (10	0′000 ft)
Safety standards	<ul><li>Information technology equipment</li><li>Control equipment for hazardous location</li></ul>		IEC/EN 60950-1 UL 1604	100 A D C 0 D T41
	- Electrical equip. for potentially explosive	- Electrical equip. for potentially explosive atmospheres		1 & 2, group A, B, C & D, T4)  5  Ex nA IIC T4)
	<ul> <li>Industrial control equipment</li> <li>Electrical equipment for machines</li> <li>Electronic equipment for power installati</li> <li>Safety transformers</li> </ul>	<ul><li>Electrical equipment for machines</li><li>Electronic equipment for power installation</li></ul>		·
Safety approvals and certifications	- CB report (IEC 60950) - ATEX, IECEx scheme (IEC 60079-15)			com/products/tex120-cb.pdf com/products/tex120-atex.pdf
Electromagnetic compat	ibility (EMC), emissions  - Conducted RI suppression on input  - Radiated RI suppression		EN 61000-6-3 EN 55022 class EN 55022 class	
Electromagnetic compat	ibility (EMC), immunity  - Electrostatic discharge (ESD)  - Radiated RF field immunity  - Electrical fast transient / burst immunity  - Electrical fast transient / burst immunity  - 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 EN 61000-4-3 EN 61000-4-4 EN 61000-4-5 EN 61000-4-5 EN 61000-4-5 EN 61000-4-5 EN 61000-4-6 EN 61000-4-11	8 kV / 15 kV 10 V/m 4 kV / 2 kV 4 kV 2 kV 4 kV 0.5 kV 10 V 30 % /10 mS, 60 % /100 mS

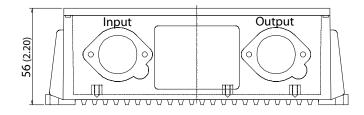
All specifications valid at nominal input voltage, full load and +25°C after warm-up time unless otherwise stated.

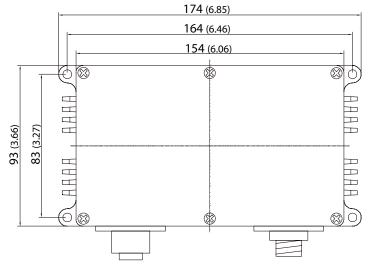


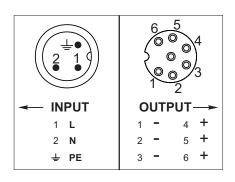
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General Specifi	cations		
Safety class		degree of protection class I	
Case protection  - Water intrusion test - Dust test - Icing test - Oil exclusion test - Salt spray test - Gasket aging test - Hosedown test		IP 67 (IEC 60529), NEMA 4X rated, UL 50 www.tracopower.com/products/tex120-water.pd 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.pd www.tracopower.com/products/tex120-hose.pdf	
Environment	<ul><li>Vibration</li><li>Shock</li></ul>	IEC 60068-2-6 IEC 60068-2-27	
Enclosure material		die-cast aluminium	
Weight		1000 g (35.3 oz)	
Installation instruction	ns	www.tracopower.com/products/tex120_inst.pdf	

### **Case Dimensions**







Mating Connectors*		
AC Input	Amphenol	
	4-pin female circular plug	
	C016 20D003 110 12	
DC Output	Amphenol	
	6-pin male circular plug	
	C016 30H006 110 12	

#### \*not included in shipment!

(Units are supplied with sealing connector caps)

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

Specifications can be changed any time without notice.



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