

Industrial Power Supplies

TEX Series, 120 Watt

Features

- Rugged power supply 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, EN/UL 60950-1 as well as UL508 listing. The power supply is also certified for class I, zone 2 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	
		at 1 - 1		

* adjustable

TRACO[®] POWER

Industrial Power Supplies TEX 120 Series 120 Watt

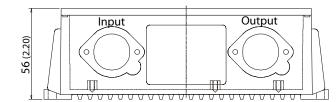
Input Specificatio	ns			
Input voltage	– nominal – AC range – DC range		100 – 240 VAC 85 – 264 VAC 85 – 375 VDC (power derating tba)	
Input frequency			47 – 63 Hz	
Harmonic limits			EN 61000-3-2, Class A	
Input current at full load (typ.)			1.0 A @ 230 VAC, 2.0 @ 115 VAC	
Recommended circuit breaker (characteristic C or slow blow fuse)			5.0 A	
Output Specificat	ions			
Output voltage adjustable range 12 VDC model: 24 VDC model:				
Output regulation (10 to 90% load variation)			2.5 %	
Ripple and noise (20MHz bandwidth)			<50 mV pk-pk	
Electronic short circuit protection			current limitation at 110 % typ. (automatic recovery)	
Output overvoltage pro	tection		<40 V	
Hold-up time			>20 ms	
General Specifica	itions			
Temperature range	Temperature range – Operating		– 40 °C to + 85 °C max.	
Power derating			above + 60 °C 2.0 %/K	
Humidity			up to 100% rel. H with condensation	
Reliability (calculated N	1TBF according IEC 61709)		>900'000h @ 40 °C	
Altitude			3000 m max. (10′000 ft)	
Safety standards	 Information technology equipment Control equipment for hazardous location 		IEC/EN 60950-1 UL 1604 (Class I, Division 1 & 2, group A, B, C & D, T4)	
	- Electrical equip. for potentially explo	osive atmospheres	IEC/EN 60079-15 (Class I, Zone 2, EEx nA IIC T4)	
	 Industrial control equipment Electrical equipment for machines Electronic equipment for power insto Safety transformers 	Illation	UL 508 EN 60204-3 EN 50178 EN 61558-2-8	
Safety approvals and certifications (in process)	– CB report – UL approvals – IEC		IEC/EN 60950-1 UL 508 listing, UL 1604 ATEX, IECEx scheme	

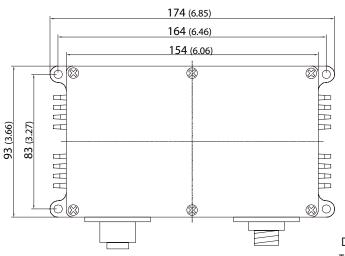
All specifications valid at nominal input voltage, full load and +25°C after warm-up time unless otherwise stated.



Electromagnetic compatibility (EMC), emissions – Conducted RI suppression on input		EN 61000-6-3 EN 55022 class B	
Electromagnetic compatibility (EMC), immunity		EN 61000-6-2	
	– Electrostatic discharge (ESD)	EN 61000-4-2	8 kV / 15 kV
	 Radiated RF field immunity 	EN 61000-4-3	10 V/m
	 Electrical fast transient / burst immunity input 	EN 61000-4-4	4 kV /
	 Electrical fast transient / burst immunity output 	EN 61000-4-4	2 kV
	– Surge immunity line – neutral	EN 61000-4-5	4 kV
	– Surge immunity line – ground	EN 61000-4-5	2 kV
	– Surge immunity neutral – ground	EN 61000-4-5	4 kV
	 Surge immunity output 	EN 61000-4-5	0.5 kV
	 Immunity to conducted RF disturbances 	EN 61000-4-6	10 V
	 Mains voltage dips and interruptions 	EN 61000-4-11	30 % /10 mS, 60 % /100 mS
Safety class		degree of protection class I	
Case protection		IP 67 (IEC 60529), NEMA 4X rated, UL 50	
Environment	– Vibration	IEC 60068-2-6	
	– Shock	IEC 60068-2-27	
Enclosure material		die-cast aluminiu	ım
Weight		1000 g (35.3 oz	<u>z</u>)
Installation instructions		www.tracopowe	r.com/products/tex120_inst.pdf

Case Dimensions

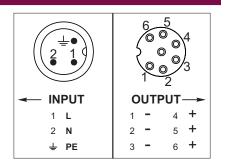




Specifications can be changed any time without notice.



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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)

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