



TPS 600LT LIGHTWEIGHT RUGGED POWER SUPPLY

DESCRIPTION

CME designs and manufactures a myriad of COTS and modified COTS Rugged Power Supplies. These AC-DC Power Supplies and DC-DC Power Converters are specifically designed to withstand extreme conditions in altitude, temperature, shock and vibration in rugged defense, and industrial applications. For 20 years, our power products have been used worldwide in a broad range of air, land, and sea systems and meet the most demanding requirements of our customers.

Leveraging the best in commercially available technology and components, CME's ruggedized 600 Watt Tactical Power Supply (TPS) is a single, environmentally sealed, AC-DC converter. The TPS 600LT provides up to 600 watts to power 28 VDC electrical devices from a universal AC input, 90 to 264 VAC source (auto switching) at 50, 60, or 400 Hz single phase.

This portable, bench-top power supply meets rigorous environments. The reliable TPS 600LT (CME P/N 0018025-001) is in production and delivers superior performance, ease of use, and user benefits.



*TPS 600LT Rugged Power Supply
P/N 0018025-001*

APPLICATIONS

TPS 600LT is ideal for providing quiet, reliable power in industrial applications or military and homeland security operation centers, command posts, headquarters, and encampments, for radios, and other military electronics or sensors.

- Bench-top power supply for 28V electrical loads
- Military radio-telephone operators
- Homeland security radio-telephone operators
- Signal/Communication units
- Other C4ISR applications.

KEY FEATURES & BENEFITS

- Lightweight benchtop tactical power supply
- Universal AC input / Full range, 90 to 264 VAC, Frequency range of 47 to 63 Hz , 400 Hz (\pm 40 Hz)
- Best performance high-density modules
- IP67 fully enclosed, waterproof, rugged cast housing and cover
- Provides complete protection from dust, oil, water, and other non-corrosive material; protection from contact with enclosed equipment
- Convective heat transfer – fanless design
- Output Visual indicator
- High reliability
- 24 -32 output adjustable (at factory)
- Includes 2 meter AC input cable
- Additional cable accessories can be ordered

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SPECIFICATIONS

		TPS 600LT	
INPUT	Voltage Range	90 to 264 VAC Universal	
	Frequency Range	47 to 63 Hz , 400 ± 40 Hz (Reduced PFC above 63 Hz)	
	Power Factor	Meets EN61000-3-2	
	AC Current	7.4/3.5A @ 115/230 VAC	
	In-rush Current	20/40A peak @ 115/230 VAC, cold start @ 25°C (Typical)	
	Leakage Current	<1.0 mA max at 230 VAC/50 Hz	
	Input Connector	D38999/20WD5PN	
OUTPUT	Output Voltage	28 VDC	
	Output Current	0 – 22A	
	Output Power	616W	
	Output Load Regulation	60mV	
	Output Line Regulation	60mV	
	Output Ripple & Noise (20 MHz BW)	1% (2% below 0°C)	
	Efficiency (110/220 VAC)	85/ 88 percent	
	Minimum Load	No min load required	
	Recovery Time	25 milliseconds when the load is switched form no load to full load and vice versa	
	Stability	Output drift <+/-0.5% over a period of 24 hours	
	Hold Up Time (230VAC)	25 ms	
	Output Connector	D38999/20WE6SN	
	Overload	> 120% rating	
	PROTECTION	Overload	Protection type : Recovers automatically after fault condition is removed 35.00 - 39.20 VDC
Over Voltage		Protection type : Converter shut down output voltage, re-power on to recover Shuts down between 90 - 105°C (Auto recovery)	
Over Temperature		Protection type : Shut down output voltage, recovers automatically after temperature goes down	
Cooling		Convection cooled	
Temperature		Operating: -40 to +55°C ambient; Storage: -50 to +100°C	
ENVIRON- MENT		Humidity	IP66/IP67
		Vibration	MIL-STD-810E, Method 514.4, Proc 1, Category 1, 9
	Shock	MIL-STD-810E, Method 516.5, Proc. I, IV, VI	
	Safety Standards	UL60950-1, CSA 22.2 No 60950-1, EN60950-1 (Ed 2), CE Mark. Enclosure: North American Mark of Safety - cUL & UL listed, Certified to NEMA 4X standards (UL508)	
SAFETY & EMC	Withstand Voltage	Input – Output:3KVAC Input -FG:2KVAC Output -FG:0.5KVAC	
	Isolation Resistance	Input – Output, Input -FG, Output -FG:50M Ohms (25°C +/-15C)	
	EMC Emission	EN55022/EN55011 Class B, MIL STD 461/462D CE102	
	EMC Immunity	Compliance to EN61000-3,-4; -5, Level 3	
	MTBF	>150,000 hours	
OTHER	Dimension	12 in x 8 in x 5in (L x W x H)	
	Weight	10 lb	
	Materials/Finish	Enclosure: Die-cast Aluminum?	
	Use	Portable, Benchtop	
	Cable	Input AC Cable (2m) provided standard	

