TRACO[®] POWER

AC/DC Power Supplies

TOP 100 Series, 100 Watt

Features

- 100 W power supply in 2.0"x 4.0" footprint!
- Full load operation up to +50°C with convection cooling
- Highest efficiency, 90 % typ.
- EMI filter meets EN 55022, level B
- Compliance with EN 61000-3-2
- Low leakage current
- Safety class I and class II operation
- 3-year product warranty



The new TOP-100 Series AC/DC Power Supplies feature the highest power rating in the industry standard 2.0" \times 4.0" (50.8 \times 101.6 mm) footprint. They can supply up to 100 W output power with convection cooling over an industrial operating temperature range of -25°C to +50°C. This performance could be realized by a state of the art design providing an extremely high efficiency of >90 % which eliminates the need for a dedicated power supply cooling fan.

Also see: www.tracopower.com/products/top100_article_e1.pdf

Compliance with global safety and EMC standards qualify these power supplies for worldwide markets. Approved for Class I and Class II applications, these switchers are suitable for industrial and IT systems but also for consumer products. High reliability is provided by use of industrial quality grade components and an excellent thermal management. This product offers an interesting power supply solution for many space and cost critical applications in commercial and industrial electronic equipment.

Models			
Order Code	Output Voltage	Output Current	
	(Adjustment Range)	max.	
TOP 100-105	5.0 VDC (5.0 - 5.2)	20.0 A	
TOP 100-112	12 VDC (12.0 - 13.0)	8.3 A	
TOP 100-115	15 VDC (15.0 - 16.0)	6.7 A	
TOP 100-124	24 VDC (24.0 - 26.0)	4.2 A	
TOP 100-148	48 VDC (48.0 - 52.0)	2.1 A	

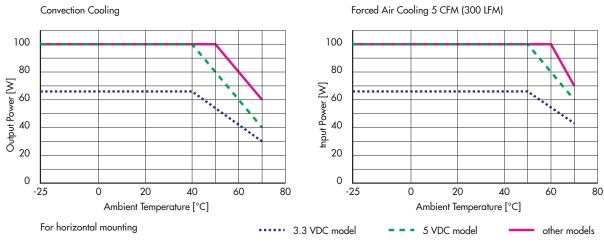
On demand (not for new design in) : TOP 100-103 with Output 3.3 VDC (3.3-3.5) / 20.0 A



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Input Specifications			
Input voltage range		power derating at low input voltage:	90 – 132 / 187 – 264 VAC autorange 50 % at 90 VAC – 0 % at 103 VAC 20 % at 187 VAC – 0 % at 207 VAC
Input frequency			47 – 63 Hz
Input protection			T4 A/250 V internal fuse in both line & neutral
Harmonic limits			EN 61000-3-2, class A
Zero load power consumpt	ion		3.6 W
Recommended circuit breal	ker		6 A (characteristic C) or slow blow fuse
Output Specification	IS		
Regulation	– Input and Load	variation	1.0 % max.
Output voltage adjustment			with internal potentiometer (for range see model table)
Ripple and noise (20Mhz E	Bandwidth)	48 VDC model:	<100 mVp-p <200 mVp-p
Overvoltage protection		3.3 VDC model: 5.0 VDC model: 12 VDC model: 15 VDC model: 24 VDC model: 48 VDC model:	30 V
Power back immunity		5 VDC model: 12 VDC model: 15 VDC model: 24 VDC model:	5.0 V (6.0 V for 1 sec) 6.3 V (7.0 V for 1 sec) 16 V (18 V for 1 sec) 20 V (23 V for 1 sec) 35 V (40 V for 1 sec) 63 V (68 V for 1 sec)
Overload protection by cur	rent limit		at 150 % lout max.
Short circuit protection			foldback (automatic recovery)
Capacitive load			10′000 μF max.
General Specificatio	ns		
Operating temperature			-25°C to +70°C with derating
			<u> </u>

Power derating depending on temperature



Forced Air Cooling 5 CFM (300 LFM)

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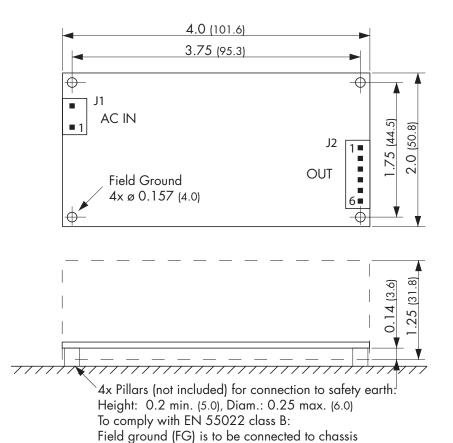
Temperature coefficient		0.02 %/K	
Humidity (non condensing)		0 – 95 % rel. H max.	
Efficiency	- Vin = 115 VAC - Vin = 230 VAC	89 - 91 % 90 - 92 %	
Switching frequency		100 kHz typ. (pulse width modulation)	
Hold-up time	- Vin = 115 VAC - Vin = 230 VAC	10 ms typ. 15 ms typ.	
Start-up time	- Vin = 115 VAC - Vin = 230 VAC	<3.5s <2s	
Isolation voltage	– Input / Output – Input / Field Ground – Output / Field Ground	3000 VAC 1500 VAC 500 VAC	
Isolation resistance (at 500 VDC)		100 Mohm min.	
Earth leakage current		250 µA max.	
Reliability, calculated MTBF of	at +25°C acc. to IEC 61709	www.tracopower.com/products/top100-mtbf.pdf	
Isolation class		class II double isolation	
EMC emissions	 Conducted input RI suppression Harmonic current emissions 	EN 55022, class B (conductive plane to be connected to safety earth) IEC / EN 61000-3-2, class A	
EMC immunity	 Electrostatic discharge ESD RF field immunity Electrical fast transients/burst immunity Surge Conducted RF Voltage dip 	IEC / EN 61000-4-2 IEC / EN 61000-4-3 IEC / EN 61000-4-4 IEC / EN 61000-4-5 IEC / EN 61000-4-6 IEC / EN 61000-4-11	
Safety approvals and certifications	– CB certificate (IEC 60950-1) – SIQ certificate (EN 60950-1) – UL coc (UL 60950-1) – CSA certificate (CSA C22.2 No. 60950-1-03)	www.tracopower.com/products/top100-cb.pdf www.tracopower.com/products/top100-siq.pdf www.tracopower.com/products/top100-ul.pdf www.tracopower.com/products/top100-csa.pdf	
Environment	– Vibration acc. IEC 60068-2-6; – Shock acc. IEC 60068-2-27	3 axis, sine sweep, 10–55Hz, 1g, 1oct/min 3 axis, 10g half sine, 11msShock 20 G (3 directions each 3 times)	
Environmental compliance	– Reach – RoHS	www.tracopower.com/products/top100-reach.pdf RoHS directive 2011/65/EU	
Connection		pin connector (Molex)	
Weight		140 g (4.9 oz)	

Installation instructions : www.tracopower.com/products/top100-inst.pdf

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



Dimensions



Dimensions in Inch, () = mm

Input	
Pin J1	
1	AC in
2	AC in

Output		
Pin	J2	
1	– Vout	
2	– Vout	
3	– Vout	
4	+ Vout	
5	+ Vout	
6	+ Vout	

J1: Molex Series 41791 mates with Molex crimp terminal: 08-52-0072 and terminal housing: 09-50-3031

J2: Molex Series 41791 mates with Molex crimp terminal: 08-52-0072 and terminal housing: 09-50-3061

Specifications can be changed without notice! Make sure you are using the latest documentation, downloadable at www.tracopower.com



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