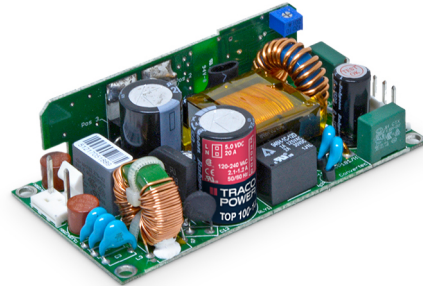


- 100 W power supply in 2.0"x 4.0" footprint!
- Full load operation up to +50°C with convection cooling
- Highest efficiency, 90 % typ.
- EMI filter meets EN 55032, level B
- Compliance with EN 61000-3-2
- Low leakage current
- Safety class I and class II operation
- 3-year product warranty



UL 60950-1 IEC 62368-1

The new TOP 100 Series AC/DC Power Supplies feature the highest power rating in the industry standard 2.0" x 4.0" (50.8 x 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/info/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 Power max.	Output Voltage nom. (adjustable)	Output Current max.	Efficiency typ.
TOP 100-103 *	100 W	3.3 VDC (3.3 - 3.5 VDC)	20'000 mA	87 %
TOP 100-105		5 VDC (5.0 - 5.2 VDC)	20'000 mA	91 %
TOP 100-112		12 VDC (12.0 - 13.0 VDC)	8'300 mA	91 %
TOP 100-115		15 VDC (15.0 - 16.0 VDC)	6'700 mA	91 %
TOP 100-124		24 VDC (24.0 - 26.0 VDC)	4'200 mA	91 %
TOP 100-148		48 VDC (48.0 - 52.0 VDC)	2'100 mA	91 %

Options	
Suffix C	- Encased version: www.tracopower.com/overview/top100c

Note * End of life

Input Specifications

Input Voltage		90 - 132 VAC / 187 - 264 VAC (Auto Range)
Input Frequency		47 - 63 Hz
Power Consumption	- At no load	2'500 mW max.
Input Inrush Current	- At 230 VAC	60 A max.
Power Factor	- At 230 VAC	0.51 min.
	- At 115 VAC	0.59 min.
Input Protection		T 3.15 A / 250 VAC (Internal Fuse in L & N)
Recommended Input Fuse		6'000 mA (slow blow) (The need of an external fuse has to be assessed in the final application.)

Output Specifications

Output Voltage Adjustment		3.3 VDC model: 3.3 - 3.5 VDC 5 VDC model: 5.0 - 5.2 VDC 12 VDC model: 12.0 - 13.0 VDC 15 VDC model: 15.0 - 16.0 VDC 24 VDC model: 24.0 - 26.0 VDC 48 VDC model: 48.0 - 52.0 VDC (By trim potentiometer) Output power must not exceed rated power!
Voltage Set Accuracy		±1.5% max.
Regulation	- Input Variation (Vmin - Vmax)	1% max. (3.3 Vout model) 0.5 % max. (other models)
	- Load Variation (0 - 100%)	1.5% max. (3.3 Vout model) 1 % max. (other models)
Ripple and Noise (20 MHz Bandwidth)		3.3 VDC model: 150 mVp-p max. 5 VDC model: 150 mVp-p max. 12 VDC model: 150 mVp-p max. 15 VDC model: 150 mVp-p max. 24 VDC model: 150 mVp-p max. 48 VDC model: 200 mVp-p max.
Capacitive Load		10'000 µF max.
Minimum Load		Not required
Temperature Coefficient		±0.02 %/K max.
Hold-up Time	- At 230 VAC	15 ms min.
	- At 115 VAC	10 ms min.
Start-up Time	- At 230 VAC	2'000 ms max.
	- At 115 VAC	3'500 ms max.
Short Circuit Protection		Automatic recovery 60% typ. of Iout nom.
Overload Protection		Foldback Mode
Output Current Limitation		150% max. of Iout max. (depending on model!) 25 A max. (3.3 Vout model) 25 A max. (5 Vout model) 11 A max. (12 Vout model) 10 A max. (15 Vout model) 6 A max. (24 Vout model) 3 A max. (48 Vout model)

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

Overvoltage Protection		135% typ. of Vout nom. (depending on model) 5 V typ. (3.3 Vout model) 6 V typ. (5 Vout model) 16 V typ. (12 Vout model) 20 V typ. (15 Vout model) 30 V typ. (24 Vout model) 60 V typ. (48 Vout model)
Transient Response	- Peak Variation - Response Time	400 mV max. (10% to 90% Load Step) 3'000 µs max. (10% to 90% Load Step)

Safety Specifications

Safety Standards	- IT / Multimedia Equipment	EN 60950-1 EN 62368-1 IEC 60950-1 IEC 62368-1 UL 60950-1
	- Certification Documents	www.tracopower.com/overview/top100
Protection Class		Class I & II (Prepared): Reinforced Insulation
Pollution Degree		PD 2
Over Voltage Category		OVC II

EMC Specifications

EMI Emissions	- Conducted Emissions - Radiated Emissions - Harmonic Current Emissions	EN 61000-6-3 (Generic Residential) EN 55032 class B (internal filter) EN 55032 class B (internal filter) EN 61000-3-2, class A (conductive plane to be connected to safety earth to meet all EMI specifications)
EMS Immunity	- RF Electromagnetic Field - EFT (Burst) / Surge - Conducted RF Disturbances - PF Magnetic Field - Voltage Dips & Interruptions	EN 61000-4-3, 10 V/m, perf. criteria A EN 61000-4-4, ±2 kV, perf. criteria A L to L: EN 61000-4-5, ±1 kV, perf. criteria A L to PE: EN 61000-4-5, ±2 kV, perf. criteria A EN 61000-4-6, 10 Vrms, perf. criteria A Continuous: EN 61000-4-8, 100 A/m, perf. criteria A 1 s: EN 61000-4-8, 1000 A/m, perf. criteria A 230 VAC / 50 Hz: EN 61000-4-11 115 VAC / 60 Hz: EN 61000-4-11

General Specifications

Relative Humidity		95% max. (non condensing)
Temperature Ranges	- Operating Temperature - Storage Temperature	-25°C to +70°C -40°C to +80°C
Power Derating	- High Temperature - Low Input Voltage	1.8 %/K above 40°C (3.3 Vout model) 2.0 %/K above 40°C (5 Vout model) 2.0 %/K above 50°C (other models) 3.8 %/V below 103 VAC (3.3 Vout model) 0.9 %/V below 207 VAC (3.3 Vout model) 3.8 %/V below 103 VAC (other models) 1.0 %/V below 207 VAC (other models)
Cooling System		Natural convection (20 LFM)
Altitude During Operation		2'000 m max.
Switching Frequency		100 kHz typ. (PWM)
Insulation System		Reinforced Insulation

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

Isolation Test Voltage	- Input to Output, 60 s	3'000 VAC
	- Input to Case or PE, 60 s	1'500 VAC
	- Output to Case or PE, 60 s	500 VAC
Creepage	- Input to Output	7 mm min.
	- Input to Case or PE	4 mm min.
	- Output to Case or PE	1 mm min.
Clearance	- Input to Output	5 mm min.
	- Input to Case or PE	2.5 mm min.
	- Output to Case or PE	0.5 mm min.
Isolation Resistance	- Input to Output, 500 VDC	100 MΩ min.
Isolation Capacitance	- Input to Output, 100 kHz, 1 V	1'120 pF typ.
Leakage Current	- Earth Leakage Current	500 μA max.
	- Touch Current	100 μA max.
Reliability	- Calculated MTBF	(see application note)
Environment	- Vibration	IEC 60068-2-6 1 g, 3 axis, sine sweep, 10-55 Hz, 1 oct/min
	- Mechanical Shock	IEC 60068-2-27 10 g, 3 axis, half sine, 11 ms
		20 g, 3 axis, 3 shocks
Connection Type		Plug-in
Weight		170 g
Power Back Immunity	3.3 VDC model:	5 VDC max. (6 VDC for 1 s)
	5 VDC model:	6.3 VDC max. (7 VDC for 1 s)
	12 VDC model:	16 VDC max. (18 VDC for 1 s)
	15 VDC model:	20 VDC max. (23 VDC for 1 s)
	24 VDC model:	35 VDC max. (40 VDC for 1 s)
	48 VDC model:	63 VDC max. (68 VDC for 1 s)
Environmental Compliance	- REACH Declaration	www.tracopower.com/info/reach-declaration.pdf REACH SVHC list compliant REACH Annex XVII compliant
	- RoHS Declaration	www.tracopower.com/info/rohs-declaration.pdf Exemptions: 6a, 6c, 7a, 7c-I, 7c-II (RoHS exemptions refer to the component concentration only, not to the overall concentration in the product (O5A rule). The SCIP number is provided on request.)

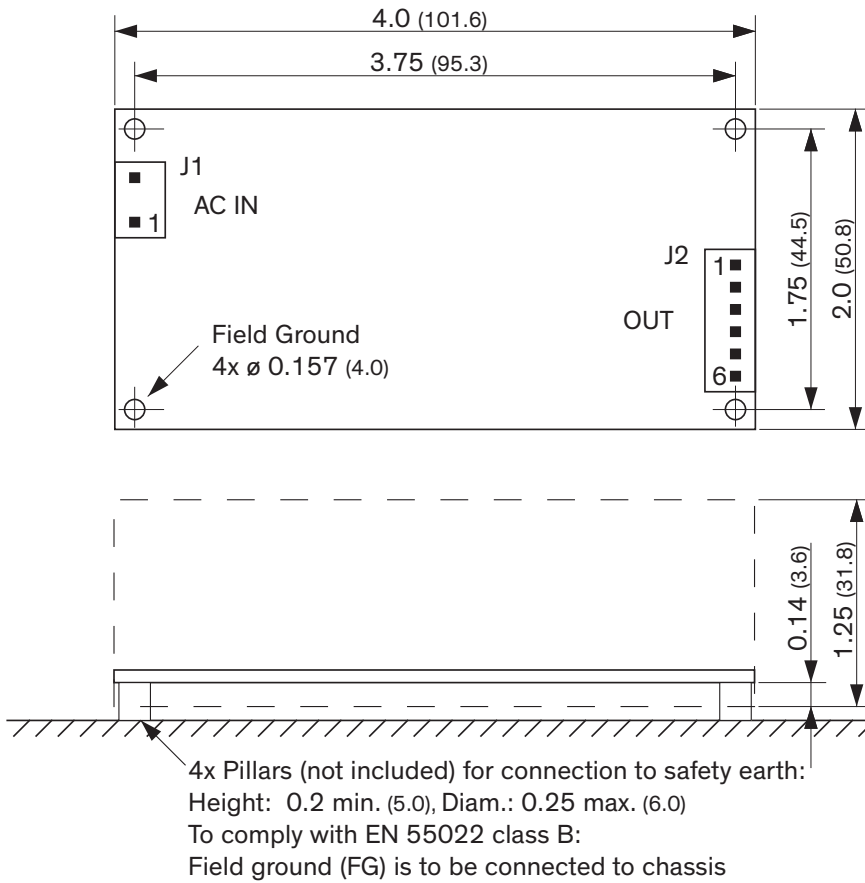
Supporting Documents

Overview Link (for additional Documents)

www.tracopower.com/overview/top100

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

Outline Dimensions



Dimensions in Inch (mm)
 Tolerances: ± 0.008 (± 0.2)

Input (J1)		Output (J2)	
Pin	Function	Pin	Function
1	AC in	1	- Vout
2	AC in	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

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