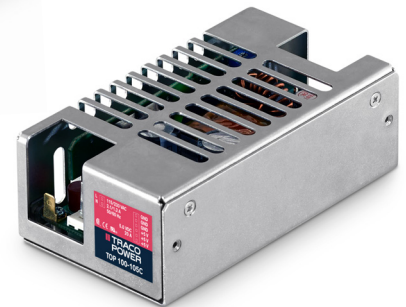
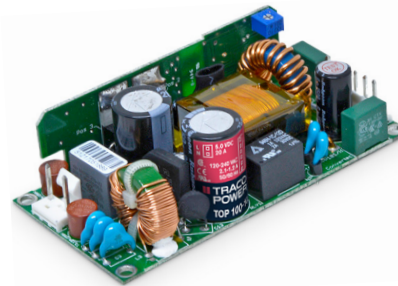




### Features

- ◆ 100 W power supply in 2.0" x 4.0" footprint! openframe and enclosed version available
- ◆ 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" 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/products/top100\\_article\\_e1.pdf](http://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 (open frame)	Order Code (enclosed)	Output Voltage (Adjustment Range)	Output Current max.
TOP 100-105	TOP 100-105C	5.0 VDC (5.0 - 5.2)	20.0 A
TOP 100-112	TOP 100-112C	12 VDC (12.0 - 13.0)	8.3 A
TOP 100-115		15 VDC (15.0 - 16.0)	6.7 A
TOP 100-124	TOP 100-124C	24 VDC (24.0 - 26.0)	4.2 A
TOP 100-148	TOP 100-148C	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

**Input Specifications**

Input voltage range	90 – 132 / 187 – 264 VAC autorange power derating at low input voltage: 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 consumption	3.6 W
Recommended circuit breaker	6 A (characteristic C) or slow blow fuse

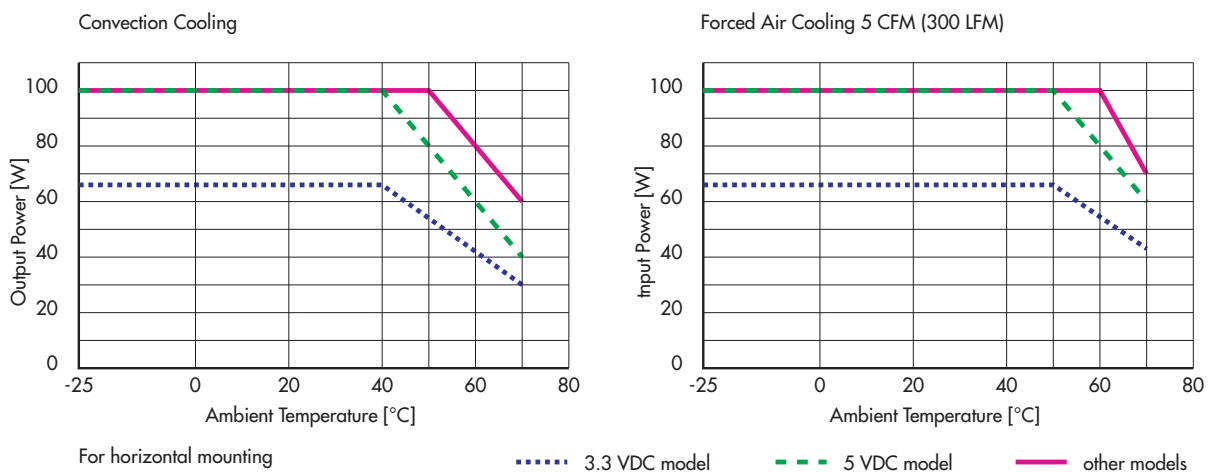
**Output Specifications**

Regulation – Input and Load variation	1.0 % max.
Output voltage adjustment	with internal potentiometer (for range see model table)
Ripple and noise (20Mhz Bandwidth)	<100 mVp-p 48 VDC model: <200 mVp-p
Overvoltage protection	3.3 VDC model: 5.0 V 5.0 VDC model: 6.0 V 12 VDC model: 16 V 15 VDC model: 20 V 24 VDC model: 30 V 48 VDC model: 60 V
Power back immunity	3.3 VDC model: 5.0 V (6.0 V for 1 sec) 5 VDC model: 6.3 V (7.0 V for 1 sec) 12 VDC model: 16 V (18 V for 1 sec) 15 VDC model: 20 V (23 V for 1 sec) 24 VDC model: 35 V (40 V for 1 sec) 48 VDC model: 63 V (68 V for 1 sec)
Overload protection by current limit	at 150 % Iout max.
Short circuit protection	foldback (automatic recovery)
Capacitive load	10'000 µF max.

**General Specifications**

Operating temperature	-25°C to +70°C with derating
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Power derating depending on temperature



**General Specifications**

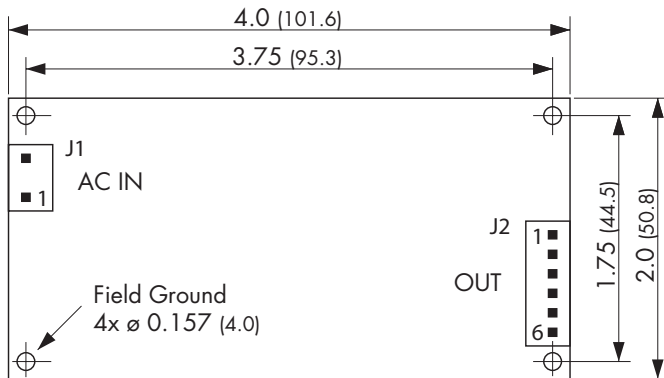
Temperature coefficient		0.02 %/K
Humidity (non condensing)		0 – 95 % rel. H max.
Efficiency	– Vin = 115 VAC – Vin = 230 VAC	89 – 91 % 90 – 92 %
Switching frequency		100 kHz typ. (pulse width modulation)
Hold-up time	– Vin = 115 VAC – Vin = 230 VAC	10 ms typ. 15 ms typ.
Start-up time	– Vin = 115 VAC – 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 at +25°C acc. to IEC 61709		<a href="http://www.tracopower.com/overview/top100">www.tracopower.com/overview/top100</a>
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 – SIQ certificate – UL coc – Certification documents	IEC 60950-1 EN 60950-1 UL 60950-1 <a href="http://www.tracopower.com/overview/top100">www.tracopower.com/overview/top100</a>
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	<a href="http://www.tracopower.com/info/reach-declaration.pdf">www.tracopower.com/info/reach-declaration.pdf</a> RoHS directive 2011/65/EU
Connection		pin connector (Molex)
Weight		140 g (4.9 oz)

**Installation instructions :** [www.tracopower.com/overview/top100](http://www.tracopower.com/overview/top100)

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

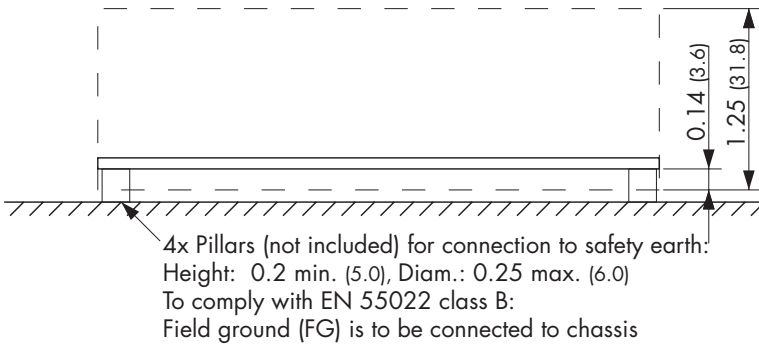
**Dimensions**

open frame:



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

Input	
Pin	J1
1	AC in
2	AC in

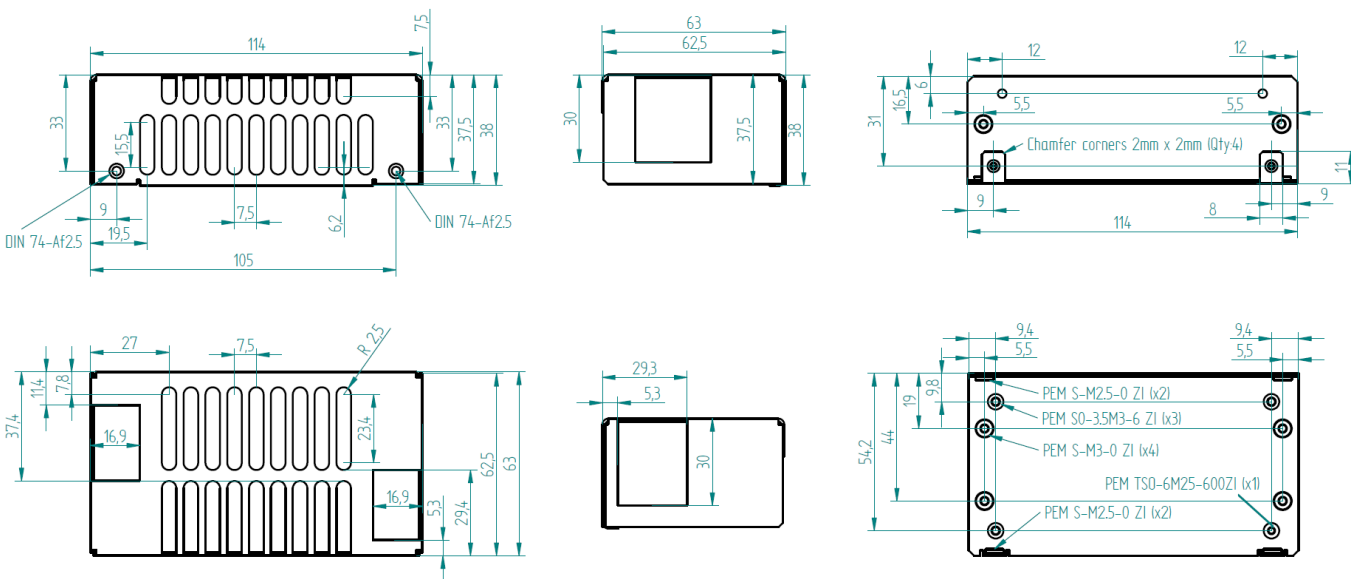


**J1:** Molex Series 41791  
mates with Molex crimp terminal: 08-52-0072  
and terminal housing: 09-50-3031

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

Dimensions in Inch, ( ) = mm

enclosed:



Dimensions in mm

Specifications can be changed without notice! Make sure you are using the latest documentation, downloadable at [www.tracopower.com](http://www.tracopower.com)

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