

李春华 13701301733 北京融源科技有限公司

地址:北京市海淀区小营西路16号北楼5层

电话:010-82714837

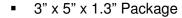
Q Q: 37823822 **微信:** 同手机号码

E-mail:shian100@126com http://www.rypower.com



180W Single Output Medical Series





- 180W Convection Cooled Power
- Ideal for 1U Applications
- Class I and Class II versions
- Universal Input 90-264 VAC
- Approved to CSA/EN/IEC/UL60601-1, 3rd Edition, 2 x MOPP Isolation
- Approved to CSA/EN/IEC/UL60950-1 2nd Edition
- Efficiency 90% typical
- 3 Year Warranty
- RoHS Compliant





Description

The MINT1180 product family is the most cost-effective medically approved supply in the market with 180 watts of convection cooled output power in 3"X5" footprint. The series comes in eight different models ranging from 12 to 48V and has been approved to IEC60601-1 3rd Edition, rated for 2 MOPP (Means of Patient Protection) isolation. This new single output power supply family has both Class I and II input versions and accepts wide input range of 90 to 264Vac. The typical 90% efficiency and convection cooled make this supply an excellent solution for HomeCare applications where the use of fans is not desired.

Model Selection

Model Number	Volts	Output Current*	Minimum Load	Ripple & Noise**	Total Regulation	OVP Threshold
MINT1180A1275K01	12V	15.0A	0A	120mV pk-pk	±3%	14.0 ± 1.1V
MINT1180A1575K01	15V	12.0A	0A	150mV pk-pk	±3%	18.5 ± 1.2V
MINT1180A1875K01	18V	10.0A	0A	180mV pk-pk	±3%	21.5 ± 2.0V
MINT1180A2475K01	24V	7.50A	0A	240mV pk-pk	±3%	29.0 ± 2.5V
MINT1180A2875K01	28V	6.40A	0A	280mV pk-pk	±3%	33.5 ± 2.5V
MINT1180A3275K01	32V	5.62A	0A	320mV pk-pk	±3%	36.0 ± 3.0V
MINT1180A4875K01	48V	3.75A	0A	480mV pk-pk	±3%	56.0 ± 3.0V

Notes: * Total convection power is 180 Watts.

General Specifications

AC Input	100-240Vac, ±10%, 47-63Hz, 1∅ 120–370Vdc	Turn On Time	Less than 3 sec. @115Vac & Full Load
Input Current	115Vac: 1.8A, 230Vac: 0.9A	Hold-up Time	>16mS at 180W, 120Vac

^{**} Measured with noise probe directly across output terminals, and load terminated with 0.1µF ceramic and 10µF low ESR capacitors.

Derate output power linearly above 50 ℃ to 50%

Operating: Half-sine, 20gpk, 10ms, 3 axes, 6

Non-Operating: Half-sine, 40 gpk, 10 ms, 3

EN/CSA/UL/IEC 60601-1, 3rd Edition

EN/CSA/UL/IEC 60950-1, 2nd Edition

214,194 hours, 25°C, 110Vac



Output Voltage

Adjustability

Minimum Load

Total Regulation

Vibration

Dimensions

Weight

Voltage

See chart

Fixed output

Not required

axes, 10 min/axis

3 axes, 1 hr/axis

W: 3.0" x L: 5.0" x H: 1.3"

+/- 3% combined line, load and initial setting.

Operating: 0.003g²/Hz, 1.5grms overall, 3

Non-Operating: 0.026g²/Hz, 5.0grms overall,

General Specifications (continued)

Inrush Current	264Vac, cold start: will not exceed 55A	Signals	N/A
Input Fuses	F1, F2: 4.00A, 250VAC fuses provided on all models	Overload Protection	120%-150% of rating, Hiccup Mode
Earth Leakage Current	<275μA@264Vac, 60Hz, NC; <400μA SFC	Short Circuit Protection	Provided - no damage will occur if the output is shorted, auto recovery
Efficiency	88% typical	Overvoltage Protection	OVP latch at 110%-130% of rated output voltage.
Output Power	180W convection cooled	Switching Frequency	PFC: Fixed, 65kHz Main Converter: Variable 35-200kHz, 65-70kHz at full load.
Transient Response	500 μ S typ. for return to within 0.5% of nominal, 50% load step. $\Delta i/\Delta t < 0.2A/\mu$ S. Max Volt Deviation = 3%	Isolation	Input-Output: 4000Vac, 2 x MOPP Input-Ground: 1800Vac, 1 x MOPP Output-Ground: 1500Vac
Ripple and Noise	See chart	Operating Temperature	-10℃ to +70℃ Start Up at -40℃, full load

Temperature

Temperature

Relative Humidity

Safety Standards

Derating

Storage

Altitude

Shock

MTBF

at 70°C

-40°C to +85°C

shocks total

axes, 6 shocks total

Operating: -500 to 10,000 ft.

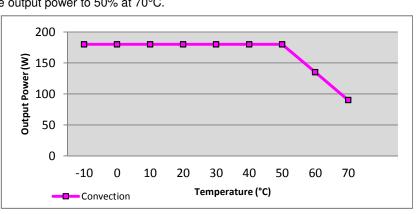
5% to 95%, non-condensing

Non-operating: -500 to 40,000 ft.

Output vs. Temperature Derating Curve

325g

180W convection cooled, derate output power to 50% at 70°C.





180W Single Output Medical Series

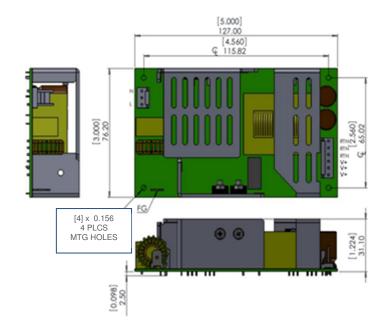
EMI/EMC (Compliance
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Conducted Emissions	EN55011/22 Class B, FCC Part 15, Subpart B, Class B
Radiated Emissions	EN55011/22; FCC Part 15, Class A with 6dB Margin
Static Discharge Immunity	EN61000-4-2, Criteria A, 6kV Contact Discharge, 8kV air discharge
Radiated RF Immunity	EN61000-4-3, 3V/m. Criteria A.
EFT/Burst Immunity	EN61000-4-4, 2kV/5kHz, Criteria A
Line Surge Immunity	EN61000-4-5, 1kV differential, 2kV common-mode, Criteria A
Conducted RF Immunity	EN61000-4-6, 3Vrms, Criteria A
Power Frequency Magnetic Field Immunity	EN61000-4-8, 3A/m, Criteria A
Voltage Dip Immunity	EN61000-4-11, 5% Vnom: 0.5cycle; 40% Vnom: 5 cycles, 70% Vnom: 25 cycles, Criteria A
Line Harmonic Emissions	EN61000-3-2, Class A, B, C, & D
Flicker Test	EN61000-3-3, Complies (dmax<6%)

Mechanical Drawing

Notes:

- 1. All dimensions in inches (mm), tolerance is +/-0.000".
- Mounting holes should be grounded for EMI numbers.
- EMI purposes.
 3. FG is safety ground connection.
- The power supply requires mounting on metal standoffs 0.20" (5mm) in height, min.



Connector Information

Input Connector J100	Ground (FG)	DC Output Connector J300
PIN 1) AC LINE PIN 2) EMPTY PIN 3) AC NEUTRAL	0.25" FASTON TAB	Term. 1,2,3: RTN Term. 4,5,6: +Vout
Mating Connector: AMP 640250-3 Pins: 640252-2	Mating Connector: Molex 190020001	Mating Connector: AMP 640250-6 Pins: 640252-2

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