## **MINT1045**



45 W Single Output Series

Medical & ITE – Universal Input Power Supply

- •45 W Convection Cooled
- •Universal Input 80--270 Vac
- •Very Small Size: 2" W x 3" L x 1.0" H
- •88% Efficiency Typical
- •Class I or Class II AC Input Applications
- •CSA/EN/IEC/UL60601-1 3<sup>rd</sup> Edition for Medical, Type BF Capable, Ultra-low Leakage Current
- •CSA/EN/IEC/UL60950-1 2<sup>nd</sup> Edition for ITE

#### International Safety Standard Approvals

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**3 Year Warranty** 

#### **Specifications**

Specifications	All Specifi	ications are typical at nominal input, full load at 25°C unless otherwise stated.		
	240Vac +/- 10%, 47-63 Hz 1∅ rated 80-270 Vac, 47-440 Hz operational	Turn On Time	500 ms max at 120 Vac	
Input Current 0.75A @ 120 Vac, 0.45 A @ 240 Vac		Hold-up Time 25 ms minimum at 45 W, nominal input (120Vac)		
Inrush Current	37A max., 264 Vac	Overvoltage Protection	120-150%, auto-reset	
Input Fuses F1, F2: 1.6/	A, 250Vac fuses provided internally	Overload Protection	Hiccup Mode, 58W typical	
Power Factor Co	omplies with EN61000-3-2, Class A	Short Circuit Protection	Hiccup Mode, 58W typical	
Efficiency	88% typical	<b>Overtemperature Protection</b>	on Self-Recovering	
Output Power 45 W continuous.	See chart for operation above 50°C	Medical Safety Standards Methods Of P	CSA/EN/IEC/UL 60601-1, 3 <sup>rd</sup> Edition Protection: 2 MOPP for Type BF Applications	
Peak Output Power	50 W for 1 minute, 10% duty cycle	ITE Safety Standards See	CSA/EN/IEC/UL 60950-1, IEC 2 <sup>nd</sup> Edition page 2 for detailed safety agency standards	
Ripple and Noise 1% pk-pk max., 20 MHz BW, differential mode Measured with noise probe directly across output terminals		Isolation Inp	ut-Output: 4500Vac, Input-Ground: 1900Vac Output-Ground: 1900Vac	
Output Voltage	See chart	Leakage Current 12 <sup>1</sup>	V-28V models: 120Vac: 30µA NC/70µA SFC 264Vac: 75µA NC/130µA SFC 48V model: 120Vac: 90µA NC/120µA SFC 264Vac: 190µA NC/220µA SFC	
Voltage Adjustability Not adjustable Factory set with fixed resistors for higher reliability		Operating Temperature	-20° to 70°C See derating chart	
Minimum Load	Not required	Output Power Derating	Derate output power by 2.5% per °C above 50°C, up to 70°C max	
Total Regulation	See chart	Storage Temperature	-40 to +85°C	
Transient Response	500µs max. to 1%, 50% load step 0.2A/µs, 3.5% deviation. typical	Relative Humidity	5% to 95%, non-condensing	
Switching Frequency	Fixed 65 kHz, typical	MTBF	300K hours per Telcordia	

# Model Number Key MINT 1 045 A 12 75 K 01 Image: Colspan="2">Image: Colspan="2">Mint Image: Colspan="2">Image: Colspan="2">Model Number Key Image: Colspan="2">Mint Image: Colspan="2">Image: Colspan="2">Model Number Key Image: Colspan="2">Image: Colspan="2">Model Model, 02 and higher indicates a modified model. Image: Colspan="2">Image: Colspan="2" Image: Colspan="2">Image: Colspan="2" Image: Colspan="2" Image: Colspan="2" Image: Colspan="2" I

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## **MINT1045**



#### 45 W Single Output Series

#### Medical & ITE – Universal Input Power Supply

#### 3 Year Warranty

Output Parameters						
Model Number	Volts	Output Current	Ripple & Noise	Total Regulation	Initial Set-point Tolerance	
MINT1045A1275K01	12 V	3.75	120mV	±0.5%	±2%	
MINT1045A1575K01	15 V	3.00	150mV	±0.5%	±2%	
MINT1045A2475K01	24 V	1.90	240mV	±0.5%	±2%	
MINT1045A2875K01	28 V	1.60	280mV	±0.5%	±2%	Consult factory for availability
MINT1045A4875K01	48 V	0.95	480mV	±0.5%	±2%	

Notes:

1. Derate output power by 2% per volt AC for input voltage <90Vac.

Specifications (continued)					
Vibration	Random vibration per MIL-STD-810E, Method 514.4, Cat. 1, Figure 514.4-1, 1 hr in each of three axes	Shock	Half-sine, 40 gpk, 10 msec duration, +/- in each of three axes, total of 6 shocks		
Enclosure Dimensi	ons See outline drawing	Operating Altitude	-500 to 10,000 ft		
Weight	113 grams	Non-operating Altitude	-500 to 40,000 ft		

EMI/EMC Compliance	
Conducted Emissions	EN55011/22 Class B, FCC Part 15, Class B, 6db margin
Radiated Emissions	EN55011/22 Class A, FCC Part 15, Class A, 10db margin To meet class B for grounded input (Class I), unit should be mounted on a metal plate.
Static Discharge Immunity	EN61000-4-2, 6kV Contact Discharge, 8kV air discharge
Radiated RF Immunity	EN61000-4-3, 3V/m.
EFT/Burst Immunity	EN61000-4-4, 2kV/5kHz.
Line Surge Immunity	EN61000-4-5, 1kV differential, 2kV common-mode
Conducted RF Immunity	EN61000-4-6, 3Vrms
Power Frequency Magnetic Field Immunity Convection Cooled	EN61000-4-8, 3A/m
Voltage Dip Immunity	EN61000-4-11 100Vac, 95% dip/0.5 cycle (Criteria A), 60%/5cycles (Criteria A at 30% load), 30%/25 cycles (Criteria A).
Line Frequency Harmonics	Complies with EN61000-3-2. EN60601-2-1

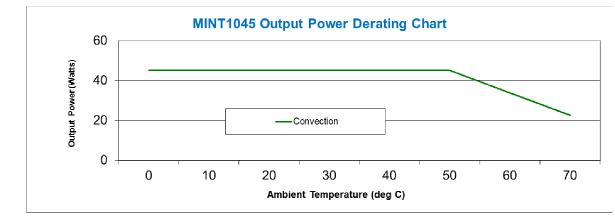
#### Safety Agency Compliance

#### Medical Certification to the New 3rd Edition:

- Demko certified to EN 60601-1:2005, 3rd Ed.
- CB certified to IEC 60601-1:2005, 3rd Edition
- UL Recognized to ANSI AAMI ES60601-1:2005 & CAN/CSA C22.2, No. 60601-1-08

#### ITE Certification to the New 2nd Edition:

- Demko certified to EN60950-1:2006+ A11:2009,2nd Ed.
- CB certified to IEC 60950-1:2005, 2nd Edition
- UL Recognized to UL 60950-1:2007, 2nd Edition & CAN/CSA C22.2, No. 60950-1-07, 2nd Edition



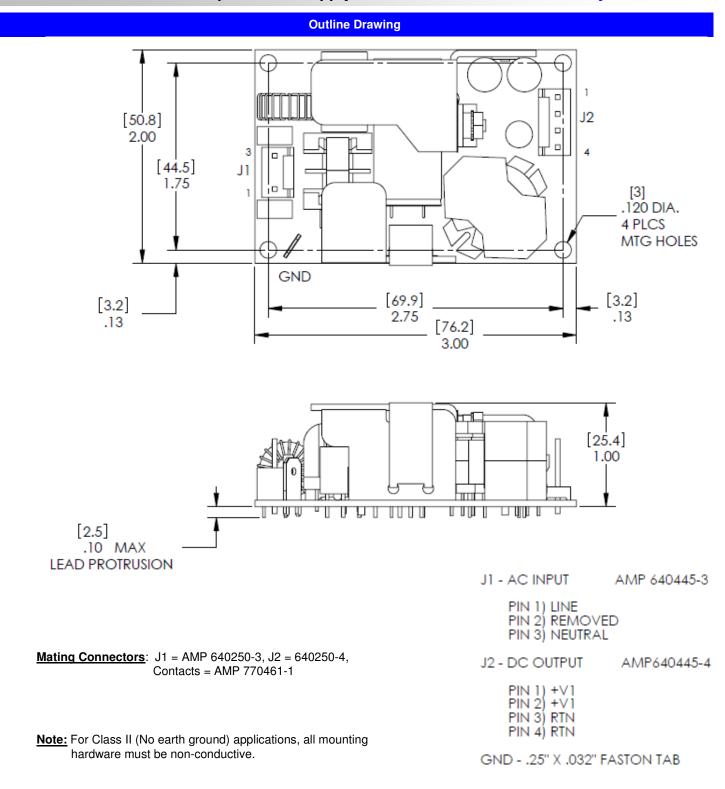




45 W Single Output Series

Medical & ITE – Universal Input Power Supply





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