



90 Watt Medical Series

Desktop Type

mA90 - 10XX YY



Green Mode

Meet CEC , DoE Level VI, Energy Star, ErP Stage 2
No Load Power Consumption Less Than 0.15W

Features :

- ANSI/AAMI/IEC/EN ES60601-1:2012 (60601 edition 3.1)
- EMC : IEC60601-1-2 : 2014 (edition 4.0)
- IEC 60950 approval
- Means of Protection: 2 X MOPP
- Touch Current : < 100µA
- 100-240VAC Universal Input
- Single Output to 90W
- Regulated Output With Low Ripple Noise
- Safety Agency Requirements and EMI/EMS Certified
- Modified and Custom Design Available
- 2 Years Warranty

Model	O/P Voltage	O/P Current	Watt
mA90-1012	12.0V	7.00A	84W
mA90-1015	15.0V	6.00A	90W
mA90-1018	18.0V	5.00A	90W
mA90-1019	19.0V	4.74A	90W
mA90-1024	24.0V	3.75A	90W
mA90-1012	48.0V	1.88A	90W

Input

Voltage	100-240VAC
Line Frequency	50-60Hz
Current	1.2A-0.5A
Protection	Internal Primary Current Fuse
Configuration	IEC60320/C6,C8,C14, C18

Output	
Load Regulation	±5% (Typical)
Ripple	2% Vp-p Max. for Output Voltage @ Full Load
Transient Response	0.5mS for 50% Load Change Typical
Hold-up Time	10mS @ Full Load
Protection	Short Circuit Protection / Over Voltage Protection / Over Current Protection / Over Temperature Protection
DC Cord	18AWG / 16AWG / 14AWG
Ferrite Core	Yes

Safety Approvals

CB / UL / cUL / FCC / CE / T-mark(TUV) / PSE

Electrical

Topology	Switching Flyback
Dielectric Withstand	4000VAC Primary - Secondary
Touch Current	< 100µA
Efficiency	DoE Level VI, Energy Star, ErP Stage 2 Certified
EMI Conduction & Radiation	Compliance to EN55011 Class B
Harmonic Current	Compliance to EN61000-3-2, 3
EMS Immunity	Compliance to IEC60601-1-2
MTBF	300,000 Calculated Hours at 25°C , by Telcordia SR-332

Environmental

Operating Temperature	0 to + 40°C
Storage Temperature	-20 to + 80°C
Relative Humidity	Operating : 20 to 80% RH Storage : 10 to 90% RH
Cooling	Natural Convection Cooling

Mechanical

Case Dimension	Class I : L 160 x W 64 x H 35 (mm) Class II : L 151 x W 64 x H 35 (mm)
Weight	Class I : 460g Class II : 450g

