



# 160 Watt Medical Series

Desktop Type



mA160 - 10XX YY

O / P Voltage ← C6 or C14



### 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 160W
- 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 |
|------------|-------------|-------------|------|
| mA160-1012 | 12.0V       | 12.5A       | 150W |
| mA160-1019 | 19.0V       | 8.4A        | 160W |
| mA160-1024 | 24.0V       | 6.6A        | 160W |
| mA160-1048 | 48.0V       | 3.3A        | 160W |

### Input

|                |                               |
|----------------|-------------------------------|
| Voltage        | 100-240VAC                    |
| Line Frequency | 50-60Hz                       |
| Current        | 1.8A-0.9A                     |
| Protection     | Internal Primary Current Fuse |
| Configuration  | IEC60320/C6, C14              |

| 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            | UL 2464 / 16AWG  |
| Ferrite Core       | NO( Optional )   |

### Safety Approvals

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

### Electrical

|                            |  |
|----------------------------|--|
| Topology                   | LLC  |
| 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                              |
| 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<br>Storage : 10 to 90% RH |
| Cooling               | Natural Convection Cooling                         |

### Mechanical

|                |                                   |
|----------------|-----------------------------------|
| Case Dimension | L 183 × W 81 × H 42 (mm) ( Ref. ) |
| Weight         | 820 g ( Ref. )                    |

