

MPU 101

Medical

100 W

Country of Origin: Taiwan
 Operating Temperature: 0 °C – 70 °C
 Dimensions: 189 x 89.5 x 45.5 mm
 Approvals / Marks:



Features:

Switching Power Supply For Medical Equipment. Compliant With EN 60601-1:2006 (3rd edition)
 Wide Operating Voltage AC 90 V – 264 V, 47 Hz – 63 Hz
 Energy Star 2.0, Efficiency Level V, ErP Stage 2
 1 Year Warranty

Specifications:

| | | OUTPUT | | | | |
|---------------|-------------|-------------|-----------|-------------------|-----------|------------|
| SINGLE OUTPUT | MODEL | Voltage | min. Load | max. Load | Tolerance | Max. Power |
| | MPU 101-102 | 5 V – 6 V | 0 A | 14.00 A – 11.66 A | 5 % | 70 W |
| | MPU 101-103 | 6 V – 8 V | 0 A | 13.33 A – 10.00 A | 5 % | 80 W |
| | MPU 101-104 | 8 V – 11 V | 0 A | 11.25 A – 8.20 A | 4 % | 90 W |
| | MPU 101-105 | 11 V – 13 V | 0 A | 8.33 A – 7.70 A | 3 % | 100 W |
| | MPU 101-106 | 13 V – 16 V | 0 A | 7.70 A – 6.30 A | 3 % | 100 W |
| | MPU 101-107 | 16 V – 21 V | 0 A | 6.30 A – 4.80 A | 3 % | 100 W |
| | MPU 101-108 | 21 V – 27 V | 0 A | 4.80 A – 3.70 A | 2 % | 100 W |
| | MPU 101-109 | 27 V – 33 V | 0 A | 3.70 A – 3.00 A | 2 % | 100 W |
| | MPU 101-110 | 33 V – 40 V | 0 A | 3.00 A – 2.50 A | 2 % | 100 W |

| | | Output #1 | | | | Output #2 | | | | Output #3 | | | | Maximum Output Power | |
|-----------------|---------------|-----------|-------|-------|------|-----------|-------|-------|------|-----------|-------|-------|------|----------------------|------|
| MULTIPLE OUTPUT | MODEL | V | A min | A max | Reg. | V | A min | A max | Reg. | V | A min | A max | Reg. | | |
| | MPU 101-200 | 3.3 | 1.0 | 10.0 | 7 % | 12 | 0.3 | 3.0 | 5 % | | | | | | 69 W |
| | MPU 101-201 | 5 | 1.0 | 10.0 | 5 % | 12 | 0.3 | 3.0 | 5 % | | | | | | 80 W |
| | MPU 101-202 | 5 | 1.0 | 10.0 | 5 % | 15 | 0.3 | 3.0 | 6 % | | | | | | 80 W |
| | MPU 101-203 | 5 | 1.0 | 10.0 | 5 % | 24 | 0.2 | 2.0 | 7 % | | | | | | 80 W |
| | MPU 101-204 | 3.3 | 1.0 | 10.0 | 7 % | 5 | 0.5 | 5.0 | 5 % | | | | | | 55 W |
| | MPU 101-209 | 12 | 0.7 | 7.0 | 5 % | | | | | | -12 | 0.0 | 1.0 | 5 % | 80 W |
| | MPU 101-210 | 145 | 0.6 | 6.0 | 5 % | | | | | | -15 | 0.0 | 1.0 | 5 % | 80 W |
| | MPU 101-212 | 24 | 0.3 | 3.0 | 5 % | | | | | | -24 | 0.0 | 1.0 | 5 % | 80 W |
| | MPU 101-215 | 5 | 1.0 | 10.0 | 5 % | | | | | | -24 | 0.0 | 1.0 | 5 % | 74 W |
| | MPU 101-300 | 3.3 | 1.0 | 10.0 | 7 % | 12 | 0.3 | 3.0 | 5 % | | -12 | 0.0 | 1.0 | 5 % | 74 W |
| | MPU 101-300-1 | 3.3 | 1.0 | 10.0 | 7 % | 12 | 0.3 | 3.0 | 5 % | | +12 | 0.0 | 1.0 | 5 % | 74 W |
| | MPU 101-301 | 5 | 1.0 | 10.0 | 5 % | 12 | 0.3 | 3.0 | 5 % | | -5 | 0.0 | 1.0 | 5 % | 80 W |
| | MPU 101-301-1 | 5 | 1.0 | 10.0 | 5 % | 12 | 0.3 | 3.0 | 5 % | | +5 | 0.0 | 1.0 | 5 % | 80 W |
| | MPU 101-302 | 5 | 1.0 | 10.0 | 5 % | 12 | 0.3 | 3.0 | 5 % | | -12 | 0.0 | 1.0 | 5 % | 80 W |
| | MPU 101-302-1 | 5 | 1.0 | 10.0 | 5 % | 12 | 0.3 | 3.0 | 5 % | | +12 | 0.0 | 1.0 | 5 % | 80 W |
| | MPU 101-303 | 5 | 1.0 | 10.0 | 5 % | 15 | 0.3 | 3.0 | 6 % | | -15 | 0.0 | 1.0 | 5 % | 80 W |
| | MPU 101-303-1 | 5 | 1.0 | 10.0 | 5 % | 15 | 0.3 | 3.0 | 6 % | | +15 | 0.0 | 1.0 | 5 % | 80 W |
| | MPU 101-304 | 5 | 1.0 | 10.0 | 5 % | 24 | 0.3 | 3.0 | 5 % | | -24 | 0.0 | 1.0 | 5 % | 80 W |
| | MPU 101-304-1 | 5 | 1.0 | 10.0 | 5 % | 24 | 0.3 | 3.0 | 5 % | | +24 | 0.0 | 1.0 | 5 % | 80 W |
| MPU 101-305 | 5 | 1.0 | 10.0 | 5 % | 24 | 0.3 | 3.0 | 5 % | | -12 | 0.0 | 1.0 | 5 % | 80 W | |
| MPU 101-305-1 | 5 | 1.0 | 10.0 | 5 % | 24 | 0.3 | 3.0 | 5 % | | +12 | 0.0 | 1.0 | 5 % | 80 W | |
| MPU 101-306 | 3.3 | 1.0 | 10.0 | 7 % | 12 | 0.3 | 3.0 | 5 % | | -5 | 0.0 | 1.0 | 5 % | 74 W | |
| MPU 101-306-1 | 3.3 | 1.0 | 10.0 | 7 % | 12 | 0.3 | 3.0 | 5 % | | +5 | 0.0 | 1.0 | 5 % | 74 W | |
| MPU 101-308 | 3.3 | 1.0 | 10.0 | 7 % | 5 | 0.3 | 3.0 | 5 % | | -12 | 0.0 | 1.0 | 5 % | 60 W | |
| MPU 101-308-1 | 3.3 | 1.0 | 10.0 | 7 % | 5 | 0.3 | 3.0 | 5 % | | +12 | 0.0 | 1.0 | 5 % | 60 W | |

| | | |
|-------------|-------------------|----------------------------------------------------------------------------------------------------------|
| INPUT | Voltage | AC 90 V – 264 V |
| | Frequency | 47 Hz – 63 Hz |
| | Current (max) | 1.25 A max. / 0.5 A max (at Low Line / High Line input) |
| | Leakage Current | 0.1 mA |
| | Surge Current | 50 A max. / 100 A max. (at Low Line / High Line input) |
| PROTECTION | Overload | 110 % – 150 % |
| | Over Voltage | 112 % – 132 % |
| | Short Circuit | Yes |
| OTHERS | Setup time | 2 s max. |
| | Holdup time | 16 ms typ. |
| | Cooling | Convection |
| | Withstand Voltage | 5656 V Primary to Secondary / 2828 V Primary to Ground |
| Environment | Temperature | Operation: 0 °C – 70 °C (derating at 50 °C) / Storage: -40 °C – 85 °C |
| | Humidity | Operation: 0 % RH – 95 % RH / Storage: 0 % RH – 95 % RH |
| Connection | Output | Standard Plug (Single Output): 5.5 m x 2.1 mm Standard Plug (Multiple Output): DIN plug 5 pins |
| | Input | IEC 320-C14 inlet |
| MTBF | | 100,000 h according to MIL-HDBK-217F |
| SAFETY | | ANSI/AAMI ES 60601-1:2005 (UL/cULL 3 rd edition) EN 60601-1:2006 (3 rd edition) |
| EMC | EMI | EN 55022 / EN 61000 |
| | EMS | EN 55024 |
| WEIGHT | | 778 g – 800 g |



