

GaN Medical AC/DC Desktop Adaptor



Features

- 2 x MOPP, IEC/EN60601-1 Compliance
- Gallium Nitride Based Design
- LED Indicator
- Active PFC Function
- Protections:
Short circuit / Over voltage / Over current
Over temperature
- Energy Efficiency $\geq 89\%$ ~92% depends on models
- No Load Power Consumption < 1W
- MTBF > 100,000 hours

EM1450 X Y - vv PP

X: AC inlet: 1. C14

Y: Output range

vv: Specified output voltage, i.e. 19 is 19VDC

PP: DC plug type, i.e. Code 01 for 5.5x2.1mm
or other options (refer to the appendix page)

General Specification

OUTPUT

MODEL No.	MAX. OUTPUT POWER (W)	OUTPUT VOLTAGE (Vo)	MIN. LOAD (Io)	MAX. LOAD (Io)	LOAD REGULATION	LINE REGULATION	RIPPLE & NOISE
EM1450XA	450W	19~24V	0A	23.68A	$\pm 5\%$	$\pm 1\%$	360mV
EM1450XB	450W	28~36V	0A	16.07A	$\pm 5\%$	$\pm 1\%$	540mV
EM1450XC	450W	48~56V	0A	9.37A	$\pm 5\%$	$\pm 1\%$	840mV
EM1450XD	500W	36~42V	0A	13.88A	$\pm 5\%$	$\pm 1\%$	540mV
EM1450XE	500W	48~56V	0A	10.41A	$\pm 5\%$	$\pm 1\%$	840mV

NOTE:

- 1 : Ripple & Noise is measured by using 20MHz bandwidth limited oscilloscope and terminated each output with a 0.1uF ceramic capacitor & parallel with 47uF aluminum capacitor at full load and nominal line.
- 2 : Line regulation is defined by changing $\pm 10\%$ of input voltage from nominal line at rated load.
- 3 : Max. Power (W) $\geq V_o \times I_o$

INPUT

- Input Range: 100 to 240 VAC
- Frequency: 50 to 60Hz
- Input Current: 7A to 3.5A
- Inrush Current: $\leq 80A/230VAC$
- Hold Up Time: $\geq 8.3ms$
- Turn On Time: $\leq 3s$

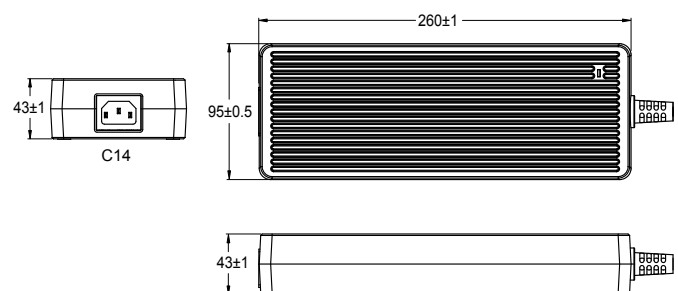
PROTECTION

- Short Circuit Protection: Auto Recovery
- Over Voltage Protection: Auto Recovery
- Over Current Protection: Auto Recovery
- Over Temperature Protection: Auto Recovery

ENVIRONMENT

- Operating Temperature: -20 to 40°C
- Storage Temperature: -20 to 85°C
- Operating Humidity: 10% to 90%
- Storage Humidity: 5% to 95%

MECHANICAL



- Case Size: 260L x 95W x 43H (mm)
- AC Inlet: C14
- Weight: 1600g

SAFETY

- Complied with ANSI/AAMI ES60601-1, CAN/CSA-C22.2 No. 60601-1, TUV EN 60601-1, CB IEC 60601-1, CE EMC(EN 60601-1-2) UL 62368-1, CAN/CSA C22.2 No. 62368-1, TUV EN 62368-1, CB IEC 62368-1, FCC Part 15B, CE EMC(EN 55032+EN 55035), UKCA