



**230~310W Desktop type Medical power supply > EM1300**

**Medical AC/DC Desktop Adapter**



**Features**

- 100-240VAC Universal Input
- LED Indicator
- 2 x MOPP Compliance, IEC/EN60601-1 Approval
- Active PFC Function
- Protections:
  - Short circuit / Over voltage / Over current
  - Over temperature
- Energy Efficiency Level VI
- No Load Power Consumption  $\leq 0.21$  W
- MTBF > 50,000 hours

**EM1300 X Y - vv PP**

- X:** AC inlet: 1. C14 2. C8 3. C6 6. C18  
**Y:** Output range  
**vv:** Specified output voltage, i.e. 12 is 12VDC  
**PP:** DC plug type, i.e. Code 01 for 5.5x2.1mm or other options (refer to the appendix page)

MODEL No.	MAX. OUTPUT POWER (W)	OUTPUT VOLTAGE (Vo)	MIN. LOAD (Io)	MAX. LOAD (Io)	LOAD REGULATION	LINE REGULATION	RIPPLE & NOISE
EM1300xA	230W	12V~18V	0A	13.33A	$\pm 5\%$	$\pm 1\%$	240mV
EM1300xB	240W	12V~18V	0A	20.00A	$\pm 5\%$	$\pm 1\%$	240mV
EM1300xC	250.2W	12V~18V	0A	20.85A	$\pm 5\%$	$\pm 1\%$	240mV
EM1300xD	260W	19V~28V	0A	13.68A	$\pm 5\%$	$\pm 1\%$	360mV
EM1300xE	270W	19V~28V	0A	14.21A	$\pm 5\%$	$\pm 1\%$	360mV
EM1300xF	270W	32V~42V	0A	8.43A	$\pm 5\%$	$\pm 1\%$	630mV
EM1300xG	270W	44V~56V	0A	6.13A	$\pm 5\%$	$\pm 1\%$	840mV
EM1300xH	280W	19V~28V	0A	14.73A	$\pm 5\%$	$\pm 1\%$	360mV
EM1300xM	290W	19V~28V	0A	15.26A	$\pm 5\%$	$\pm 1\%$	360mV
EM1300xN	300W	19V~28V	0A	15.78A	$\pm 5\%$	$\pm 1\%$	360mV
EM1300xP	310W	32V~42V	0A	9.68A	$\pm 5\%$	$\pm 1\%$	630mV
EM1300xQ	310W	44V~56V	0A	7.04A	$\pm 5\%$	$\pm 1\%$	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)  $\geq V_o \times I_o$

**Electrical Specification**

**INPUT**

- Input Range: 100 to 240 VAC
- Frequency: 50 to 60Hz
- Input Current: 5A to 2.5A
- Inrush Current: 75A/100VAC 140A/230VAC
- Hold Up Time:  $\geq 8.3$ ms
- Turn On Time:  $\leq 3$ s

**OUTPUT**

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

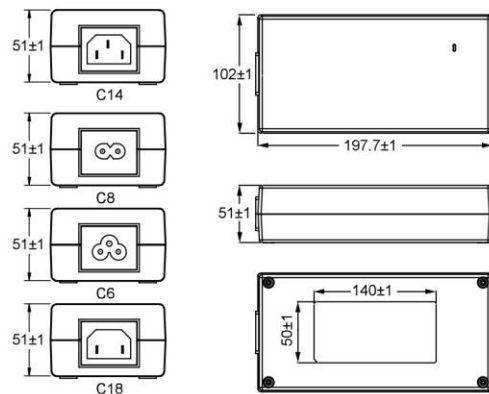
**ENVIRONMENT**

- Operating Temperature: 0 to 40°C
- Storage Temperature: -20 to 85°C
- Operating Humidity: 10% to 90%
- Storage Humidity: 5% to 95%

**SAFETY**

- Certified for whole series: UL/cUL 60601-1, TUV EN 60601-1, CB IEC 60601-1, FCC, CE

**Mechanical Specification**



- Case Size: 197.7L x 102W x 51H (mm)
- AC Inlet: C14, C8, C6, C18
- Weight: 1350g