

EM1300 Series

Medical AC/DC Desktop Adapter 230 ~ 310 W Max.

- 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 $\leq 0.21W$
- 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 5.5x2.1 mm or other options (refer to the appendix page)

Electrical Specifications

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 0.1 uF 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) $\geq V_o \times I_o$

EM1300 Series

Electrical Specifications

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 $\geq 8.3\text{ms}$
- Turn On Time $\leq 3\text{s}$

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
- Certified for assigned models: RCM, NRCAN

Mechanical Specifications

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

