

GaN Medical AC/DC Desktop Adaptor



Features

- 2 x MOPP, IEC/EN60601-1 Approval
- Gallium Nitride Based Design
- Compact Size
- Active PFC Function
- Protections:
 - Short circuit / Over voltage / Over current
 - Over temperature
- Energy Efficiency up to 95%
- No Load Power Consumption $\leq 0.21\text{W}$ (VI), $\leq 0.15\text{W}$ (Tier II)
- MTBF > 100,000 hours

EM1251 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)

General Specification

OUTPUT

MODEL No.	MAX. OUTPUT POWER (W)	OUTPUT VOLTAGE (Vo)	MIN. LOAD (Io)	MAX. LOAD (Io)	LOAD REGULATION	LINE REGULATION	RIPPLE & NOISE
EM1251XA	200W	12~15V	0A	16.66A	$\pm 5\%$	$\pm 1\%$	300mV
EM1251XB	200W	19~24V	0A	10.52A	$\pm 5\%$	$\pm 1\%$	360mV
EM1251XC	200W	28~36V	0A	7.14A	$\pm 5\%$	$\pm 1\%$	540mV
EM1251XD	200W	48~56V	0A	4.16A	$\pm 5\%$	$\pm 1\%$	840mV
EM1251XE	230W	19~24V	0A	12.1A	$\pm 5\%$	$\pm 1\%$	360mV
EM1251XF	230W	28~36V	0A	8.21A	$\pm 5\%$	$\pm 1\%$	540mV
EM1251XG	230W	48~56V	0A	4.79A	$\pm 5\%$	$\pm 1\%$	840mV
EM1251XH	250W	19~24V	0A	13.15A	$\pm 5\%$	$\pm 1\%$	360mV
EM1251XJ	250W	28~36V	0A	8.92A	$\pm 5\%$	$\pm 1\%$	540mV
EM1251XK	250W	48~56V	0A	5.2A	$\pm 5\%$	$\pm 1\%$	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: 3.5A to 2.5A
- Inrush Current: $\leq 140\text{A}/230\text{VAC}$
- Hold Up Time: $\geq 8.3\text{ms}$
- Turn On Time: $\leq 3\text{s}$

PROTECTION

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

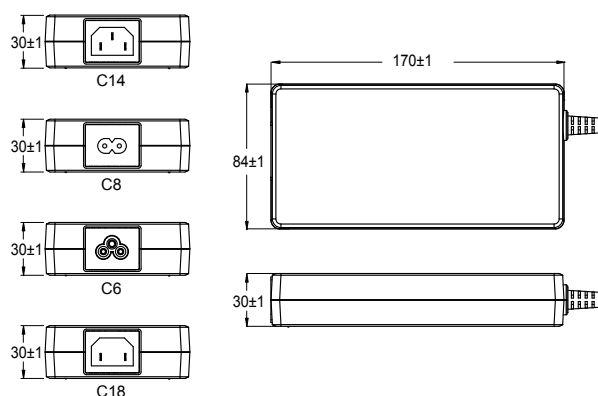
ENVIRONMENT

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

SAFETY

- Certified for whole series: 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), CB IEC 62368-1, FCC Part 15B, CE EMC(EN 55032+EN 55035), UKCA
- Complied with UL 62368-1, CAN/CSA C22.2 No. 62368-1, TUV EN 62368-1

MECHANICAL



- Case Size: 170L x 84W x 30H (mm)
- AC inlet: C14, C8, C6, C18
- Weight: 950g