

## 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  $\leq 0.21W$  (VI),  $\leq 0.15W$  (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	± 5%	± 1%	300mV
EM1251XB	200W	19~24V	0A	10.52A	± 5%	± 1%	360mV
EM1251XC	200W	28~36V	0A	7.14A	± 5%	± 1%	540mV
EM1251XD	200W	48~56V	0A	4.16A	± 5%	± 1%	840mV
EM1251XE	230W	19~24V	0A	12.1A	± 5%	± 1%	360mV
EM1251XF	230W	28~36V	0A	8.21A	± 5%	± 1%	540mV
EM1251XG	230W	48~56V	0A	4.79A	± 5%	± 1%	840mV
EM1251XH	250W	19~24V	0A	13.15A	± 5%	± 1%	360mV
EM1251XJ	250W	28~36V	0A	8.92A	± 5%	± 1%	540mV
EM1251XK	250W	48~56V	0A	5.2A	± 5%	± 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:  $\leq 140A/230VAC$
- 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: Latch-off

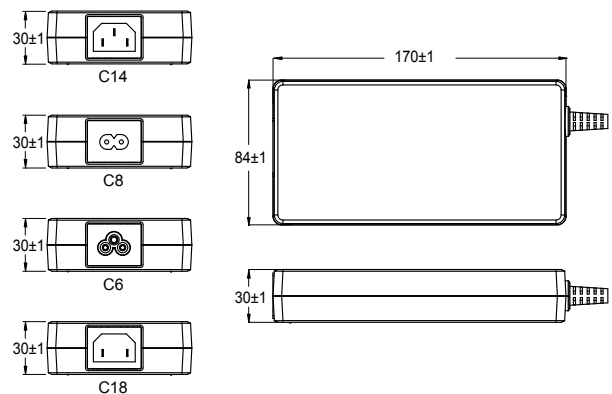
#### ENVIRONMENT

- 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