

## GaN Medical AC/DC DeskTop Type



### Features

- 2 x MOPP, IEC/EN60601-1 Compliance
- 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  $\leq 1W$
- MTBF > 100,000 hours

### EM1420 X Y - vv PP

- X:** AC inlet: 1. C14  
**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
EM1420XA	330W	12~15V	0A	27.5A	$\pm 5\%$	$\pm 1\%$	300mV
EM1420XB	330W	19~24V	0A	17.36A	$\pm 5\%$	$\pm 1\%$	360mV
EM1420XC	330W	28~36V	0A	11.78A	$\pm 5\%$	$\pm 1\%$	540mV
EM1420XD	330W	48~56V	0A	6.87A	$\pm 5\%$	$\pm 1\%$	840mV
EM1420XE	360W	19~24V	0A	18.94A	$\pm 5\%$	$\pm 1\%$	360mV
EM1420XF	360W	28~36V	0A	12.85A	$\pm 5\%$	$\pm 1\%$	540mV
EM1420XG	360W	48~56V	0A	7.5A	$\pm 5\%$	$\pm 1\%$	840mV
EM1420XH	420W	19~24V	0A	22.1A	$\pm 5\%$	$\pm 1\%$	360mV
EM1420XJ	420W	28~36V	0A	15A	$\pm 5\%$	$\pm 1\%$	540mV
EM1420XK	420W	48~56V	0A	8.75A	$\pm 5\%$	$\pm 1\%$	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 60 Hz
- Input Current: 5A to 2.5A
- Inrush Current:  $\leq 140A/230VAC$
- Hold Up time:  $\geq 8.3ms$
- Turn On Time:  $\leq 3s$

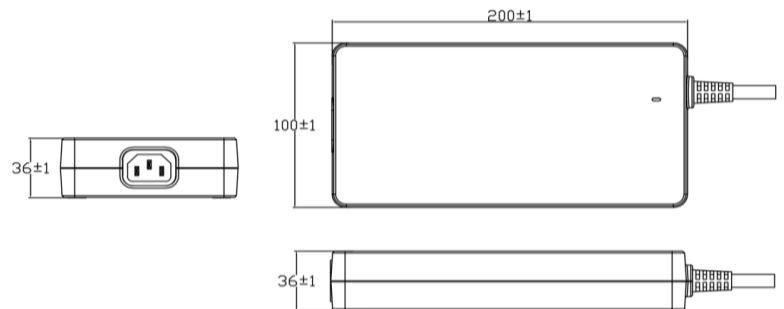
#### PROTECTION

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

#### ENVIRONMENTAL

- 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: 200L x 100W x 36H (mm)
- AC Inlet: C14
- Weight: 950g

#### 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