

Medical AC/DC Interchangeable Adaptor

Features

- 2 x MOPP Compliance, IEC/EN60601-1 Approval
- LPS Compliance
- Protections:
 - Short circuit / Over voltage / Over current
- Energy Efficiency Level VI
- No Load Power Consumption $\leq 0.1W$
- MTBF > 100,000 hours



EM1019 X Y R T - vv PP

- X:** Output range
- Y:** Case type: (V)Vertical
- R:** Interchangeable AC plug:
 - U: USA • E: EU • K: UK • A: SAA • C: China
 - S: South Africa • B: Korea • I: India
- T:** Output type: S (SR)
- 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
EM1019AVRS	15W	5~8V	0A	3A	$\pm 5\%$	$\pm 1\%$	100mV
EM1019BVRS	20W	9~13V	0A	2A	$\pm 5\%$	$\pm 1\%$	180mV
EM1019CVRS	20W	14~19V	0A	1.42A	$\pm 5\%$	$\pm 1\%$	200mV
EM1019DVRS	20W	20~27V	0A	1A	$\pm 5\%$	$\pm 1\%$	250mV
EM1019EVRS	20W	28~35V	0A	0.71A	$\pm 5\%$	$\pm 1\%$	280mV
EM1019FVRS	20W	36~48V	0A	0.55A	$\pm 5\%$	$\pm 1\%$	360mV
EM1019GVRS	18W	5~8V	0A	3A	$\pm 5\%$	$\pm 1\%$	100mV
EM1019HVRS	24W	9~13V	0A	2A	$\pm 5\%$	$\pm 1\%$	180mV
EM1019JVRS	24W	14~19V	0A	1.71A	$\pm 5\%$	$\pm 1\%$	200mV
EM1019KVRS	24W	20~27V	0A	1.2A	$\pm 5\%$	$\pm 1\%$	250mV
EM1019MVRS	24W	28~35V	0A	0.85A	$\pm 5\%$	$\pm 1\%$	280mV
EM1019NVRS	24W	36~48V	0A	0.66A	$\pm 5\%$	$\pm 1\%$	360mV

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: $\leq 0.8A$
- Inrush Current: $\leq 80A/230VAC$
- Hold Up Time: $\geq 8.3ms$
- Turn On Time: $\leq 3s$

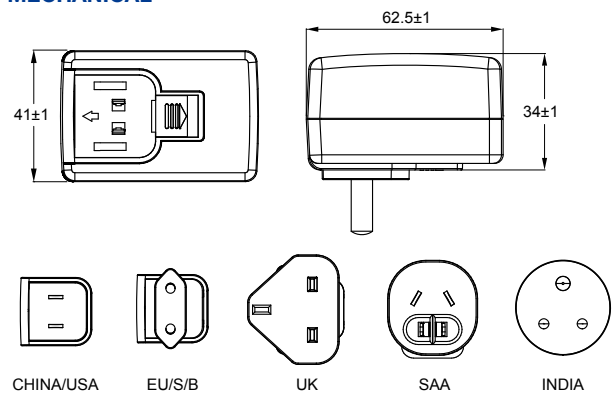
PROTECTION

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

ENVIRONMENT

- 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: 62.5L x 41W x 34H (mm)
- AC Plug: U: USA, E: EU, K: UK, A: SAA, C: China
S: South Africa, B: Korea, I: India
- Weight: 150g

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) 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), CCC, UKCA
- Certified for assigned models: CCC, RCM, Argentina