



## 30 Watt Universal 2-Wire Input Medical Adapter PSAM30R Series Power Supply



V071146



### Features

- Double Insulated
- < 100uA Leakage Current
- Class B EMI
- No Load Power Draw < 0.5W at 115VAC
- No Load Power Draw < 0.75W at 230VAC

### Applications

- Dental Curing Devices
- Portable Dental Equipment
- Patient Hoists

### Safety Approvals

- cUL/UL60601-1
- CE
- AS/NZS 3260 & 4417

### Mechanical Characteristics

- Length: 100mm (3.94in)
- Width: 63mm (2.48in)
- Height: 35.7mm (1.41in)
- Weight: 200g (7.05oz.)

### Output Specifications

Model	DC Output Voltage	Load		Ripple (1) P-P (max.)	Regulation		Efficiency Level
		Min.	Max.		Line	Load	
PSAM30R-120	+12V	0A	2.5A	120mV	±5%		IV 115V III
PSAM30R-240	+24V	0A	1.25A	240mV	±5%		IV 115V III

(1) Measured with using 12-inch twisted pair terminated with a 10uF capacitor and 0.1uF ceramic in parallel.

Phihong reserves the right to make changes without further notice. Please consult Phihong USA and visit [www.phihong.com](http://www.phihong.com) for the most up-to-date specifications.

## PSAM30R Series Characteristics

[WWW.PHIHONG.COM](http://WWW.PHIHONG.COM)

### INPUT:

**AC Input Voltage Rating**  
100 to 240VAC

**AC Input Voltage Range**  
90 to 264VAC

**AC Input Frequency**  
47 to 63Hz

**Input Current**  
1.0A (rms) max. @ 115VAC, 60Hz  
0.5A (rms) max. @ 230VAC, 50Hz

**Leakage Current**  
100uA max. @ 264VAC, 50hz.

**Inrush Current (cold start @ ambient 25°C)**  
30A for 115VAC at max. load  
60A for 230VAC at max. load

**Input Power Saving**  
0.50W max. for 115VAC, 60Hz at no load (Level IV)  
0.75W max. for 230VAC, 50Hz at no load (Level III)

### OUTPUT:

**Efficiency**  
> 80.6% average efficiency (Level IV)

**Hold-up Time**  
10mS Min. @ 115VAC, 60Hz

**Over-Voltage Protection**  
Included, all models

**Over-Current Protection**  
Output equipped with short circuit protection – auto restart

**Short-Circuit Protection**  
Output can be shorted without damage

### ENVIRONMENTAL

**Temperature**  
Operation 0 to +40°C  
Non-operation -25 to +85°C

**Relative Humidity**  
Operation 10 to 90% Non-Condensing  
Non-operation 10 to 95% Non-Condensing

**Emissions**  
FCC Class B  
EN55022 Class B / CISPR22 Class B

**Immunity**  
EN 50082-1: (EN55024)  
EN 61000-4-2, Level 3  
EN 61000-4-3, Level 2  
EN 61000-4-4, Level 2  
EN 61000-4-5, Level 3  
EN 61000-4-6, Level 2  
EN 61000-4-8  
EN 61000-4-11  
EN 61000-3-2: Harmonics  
EN 61000-3-3: Flicker

**Dielectric Withstand (Hi-pot) Test**  
Primary to Secondary: 4000VAC for 1 minute, 10mA

**DC Output Connector**  
2.1mm x 5.5mm center positive standard

### AC Input Clips (sold separately)

US: RPA  
Europe: RPE  
UK: RPK  
Australia: RPS

## Dimension Diagram Unit: mm

