



**20-30 Watt Universal 3-Wire Input Adapter**  
**PSC30U Adapter Series Meets CEC and EISA Requirements**



**Features**

- Low Cost
- EISA Energy Efficiency Compliance
- Class B EMI
- Non-Vented/Spill-proof Case
- Low Profile Design

**Applications**

- Portable Equipment
- Peripherals
- Networking
- Gaming Machines

**Safety Approvals**

- cUL/UL
- CE
- C-Tick
- TUV
- SAA
- Meeting Cal. Prop. 65

**Mechanical Characteristics**

- Length: 98.5mm (3.88in)
- Width: 55mm (2.17in)
- Height: 31.5mm (1.24in)
- Weight: 243g (8.57oz.)

**Output Specifications**

Model	DC Output Voltage	Load		Efficiency Level*
		Min.	Max.	
PSC30U-050	+5V	0A	4.0A	IV
PSC30U-120	+12V	0A	2.5A	IV
PSC30U-240	+24V	0A	1.25A	IV
PSC30U-480	+48V	0A	0.625A	IV

\* See efficiency specification below for more detailed information

**Input:**

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

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

**AC Input Frequency**  
47 to 63Hz

**Input Current**  
0.8A (RMS) maximum at 115V AC  
0.5A (RMS) maximum at 240V AC

**Leakage Current**  
3.5mA maximum

**Inrush Current**  
60A for 240V AC at maximum load  
(Cold start at ambient 25°C)

**Input Power Saving**  
0.5W maximum at no load at 115V AC

**Output: Power**  
20W for 5V  
30W for 12V, 24V, 48V

**Ripple**

5V	50mV
12V	120mV
24V	240mV
48V	480mV

(Measured after 10 minutes warm up at 25°C with 12-inch twisted pair terminated with a 10uF capacitor and 0.1uF ceramic in parallel.)

**Regulation Line & Load**  
±5%

**Efficiency**  
Level IV Compliant for level V compliance see model PSC30U-V

**Environmental:**

**Temperature**

Operation	0 to +40°C
Non-operation	-30 to +85°C
Relative Humidity	20 to 90%

**Emissions**  
FCC Class B  
EN55022 Class B

**Immunity**  
IEC61000-4-2  
IEC61000-4-3  
IEC61000-4-4  
IEC61000-4-5  
IEC61000-4-6  
IEC61000-4-8  
IEC61000-4-11  
EN61000-3-2

**Hold-up Time**  
16mS minimum at 120V AC and maximum load

**Over-Voltage Protection**  
By Zener Clamping, Adapter will be shut down

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

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

**Insulation**  
Input to Output: DC 500V 7M ohm

**Dielectric Withstand (Hi-pot) Test**  
Input to Output: 1500V AC for 1 min., 10mA

**MTBF**  
50K hours minimum at full load and 25°C

**DC Output Connector**  
2.1 x 5.5 x 10mm Center Positive Standard

**DC Cord Length**  
12V, 24V & 48V Models – 1850mm (72.8in)  
5V model – 1500mm (59.1in)

**Dimension Diagram Unit: mm**

