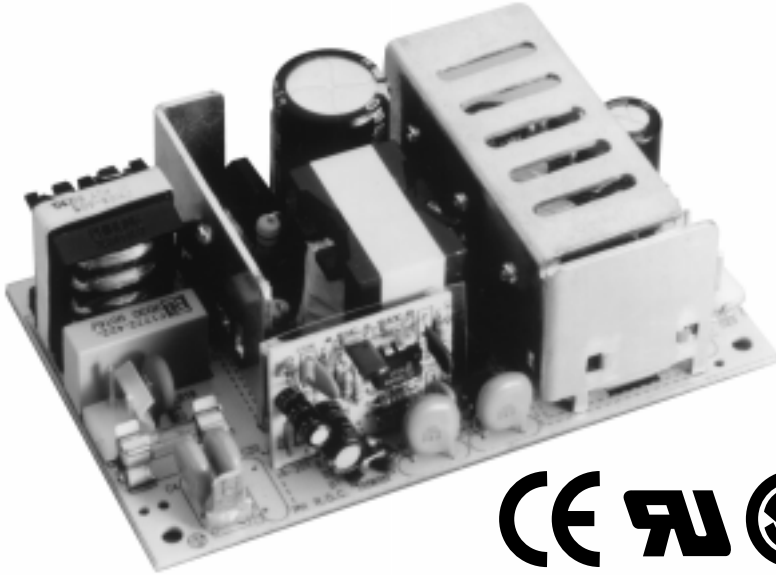


# 60W Universal Input Series

## PSA-60 Series Switching Power Supply



G  
N  
O  
T  
E

### Features

- High efficiency
- Over voltage protection
- Built-in EMI filter
- Short circuit protection

### Applications

- Disk/Tape drive systems
- Peripheral equipment
- Microprocessor systems
- Mixed logic applications

### Safety Compliance

- UL 1950 [E134610]
- CSA 22.2 234 [LR 56927-137]
- CE (Low Voltage Directive)
- VDE 0805/IEC 950 [74709]
- CB Report [DE3827]

### Mechanical Characteristics

- Dimensions:
- Length: 127mm (5.0in)
  - Height: 40mm (1.58in)
  - Width: 76.2mm (3.0in)
  - Weight: 0.36kgs (0.79lbs)

### Output Specifications

| Model      | DC Output<br>Voltage | Load |      |        |      | Ripple<br>P-P | Total<br>Tolerance | Output<br>Pins |
|------------|----------------------|------|------|--------|------|---------------|--------------------|----------------|
|            |                      | Min. | Max. | @20CFM | Peak |               |                    |                |
| PSA-60-105 | +5V                  | 0.0A | 10A  | 10A    | 12A  | 50mV          | +2%                | 1,2,3          |
| PSA-60-112 | +12V                 | 0.0A | 5.0A | 6.6A   | 8.3A | 120mV         | +2%                | 1,2,3          |
| PSA-60-115 | +15V                 | 0.0A | 4.0A | 5.3A   | 6.6A | 240mV         | +2%                | 1,2,3          |
| PSA-60-124 | +24V                 | 0.0A | 2.5A | 3.3A   | 4.2A | 150mV         | +2%                | 1,2,3          |
| PSA-60-148 | +48V                 | 0.0A | 1.2A | 1.4A   | 2.1A | 480mV         | +2%                | 1,2,3          |
| PSA-60-202 | +5.1V                | 1.0A | 6.0A | 8.0A   | 8.0A | 50mV          | +2%                | 2,3            |
|            | +24V                 | 0.1A | 1.3A | 1.8A   | 2.0A | 240mV         | +5%                | 1              |
| PSA-60-203 | +5.1V                | 1.0A | 4.0A | 6.0A   | 8.0A | 50mV          | +2%                | 2,3            |
|            | +12V                 | 0.3A | 3.5A | 4.5A   | 8.0A | 120mV         | +5%                | 1              |
| PSA-60-301 | +5.1V                | 1.0A | 6.0A | 8.0A   | 10A  | 50mV          | +2%                | 2,3            |
|            | +12V                 | 0.3A | 2.2A | 3.0A   | 6.0A | 120mV         | +5%                | 1              |
|            | -12V                 | 0.0A | 0.3A | 0.5A   | 1.5A | 120mV         | +5%                | 6              |
| PSA-60-303 | +5.1V                | 1.0A | 6.0A | 8.0A   | 10A  | 50mV          | +2%                | 2,3            |
|            | +12V                 | 0.3A | 2.2A | 3.0A   | 6A   | 120mV         | +5%                | 1              |
|            | -5V                  | 0.0A | 0.5A | 0.5A   | 1.5A | 50mV          | +5%                | 6              |
| PSA-60-304 | +5.1V                | 1.0A | 6.0A | 8.0A   | 8.0A | 50mV          | +2%                | 2,3            |
|            | +15V                 | 0.3A | 1.5A | 2.0A   | 2.0A | 150mV         | +5%                | 1              |
|            | -15V                 | 0.0A | 0.5A | 0.5A   | 0.5A | 150mV         | +5%                | 6              |

(1) Total output power must not exceed 60W at convection cooling and 80W at 20CFM air flow condition.  
 (2) Peak output current lasting less than 30 seconds with duty cycle less than 10%. During peak loading, peak total power must not exceed 80W.  
 (3) Ripple & noise is measured at 20MHz bandwidth limit by use a 10 inch twisted wire terminated with a 10µf capacitor in parallel 0.1µf ceramic capacitor.

ISO 9001 • BAPT  
Facility Approvals

# 60W Universal Input Series PSA-60 Series Switching Power Supply

## Characteristics

**AC input Voltage**  
90VAC-260VAC

**AC Frequency**  
47 to 63Hz

**AC Input Current**  
1.4A(rms) for 115VAC  
0.7A(rms) for 230VAC

**DC Output**  
See Chart

**Efficiency**  
70% typical at full load

**Hold-up Time**  
12msec. at full load,  
115VAC input

**Overvoltage Protection**  
5.6V to 6.5V on main output

**Overcurrent Protection**  
All outputs equipped with auto-  
matic recovery current limiting  
circuit

**Operation Temperature**  
0 to +25°C Full rated load  
Derates to 85% at 50°C  
Derates to 50% at 70°C

**Temperature Coefficient**  
0.04% per °C

**Storage Temperature**  
-25°C to +85°C

**MTBF**  
Calculated  
Greater than 110,000 hours,  
full load, 25°C  
(MIL-HDBK-217)

**Emissions**  
FCC Class B  
EN 50081-1: EN 55022 B

**Immunity**  
EN 50082-1: IEC 801-2 Level 3  
IEC 801-3 Level 2  
IEC 801-4 Level 2



## ENTERPRISE CO., LTD.

16, Lane 530, Chung Cheng N. Rd.  
Sanchung City, Taipei  
Taiwan 24103, R.O.C.  
Phone: 886-2-988-2126  
886-2-980-5255  
Fax: 886-2-981-7086  
886-2-983-3222

## PHIHONG USA

*Western Office:*  
48607 Warm Springs Blvd.  
Fremont, CA 94539  
Phone: (510) 445-0100  
Fax: (510) 445-1678  
Email: [usasales@phihongusa.com](mailto:usasales@phihongusa.com)  
Internet: <http://www.phihongusa.com>

*Eastern Office:*  
3005 Brodhead Road  
Bethlehem, PA 18017  
Phone: (610) 866-9911  
Fax: (610) 866-9920

## Dimension Diagram Unit: mm (inch)

