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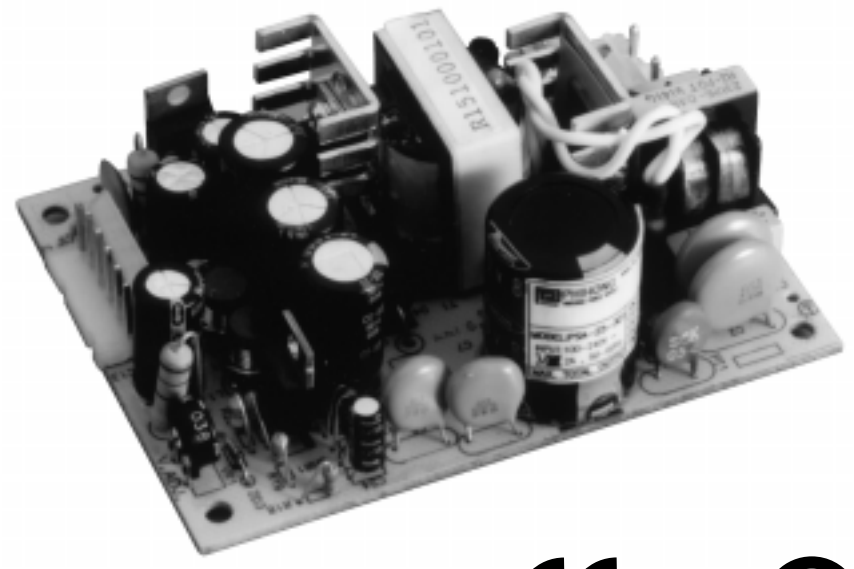
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# 25W Universal Input Series

# PSA-25 Series Switching Power Supply



## Features

- 100% Burn-in
- Built-in EMI filter
- High efficiency
- Low output ripple
- Short circuit protection
- Over voltage protection

## Applications

- Microcomputers
- Small drive systems
- Peripheral equipment
- Test equipment

## Safety Compliance

- UL 1950 [E134610]
- CSA 22.2 234 [LR 56927-137]
- VDE 0805/IEC 950 [74711]

## Mechanical Characteristics

Dimensions:
- Length: 101.6mm (4.0in)
- Width: 76.2mm (3.0in)
- Height: 33mm (1.3in)
- Weight: 0.25kgs (0.55Ibs)

## Output Specifications

| Model | DC Output Voltage | Load Min. | Load Max. | Load @20CFM | Load Peak | Ripple P-P | Total Tolerance | Output Pins |
|---|---|---|---|---|---|---|---|---|
| PSA-25-105 | +5V | 0.0A | 4.0A | 6.0A | 8.0A | 50mV | +2% | 1,2 |
| PSA-25-112 | +12V | 0.0A | 2.0A | 3.2A | 4.0A | 120mV | +2% | 1,2 |
| PSA-25-115 | +15V | 0.0A | 1.6A | 2.5A | 3.5A | 150mV | +2% | 1,2 |
| PSA-25-124 | +24V | 0.0A | 1.1A | 1.8A | 2.0A | 240mV | +2% | 1,2 |
| PSA-25-301 | +5.1V | 0.3A | 2.0A | 3.0A | 5.0A | 50mV | +2% | 2,3 |
| | +12V | 0.1A | 1.0A | 1.5A | 2.0A | 120mV | +5% | 1 |
| | -12V | 0.0A | 0.3A | 0.5A | 0.5A | 120mV | +5% | 6 |
| PSA-25-303 | +5.1V | 0.3A | 2.0A | 3.0A | 5.0A | 50mV | +2% | 2,3 |
| | +12V | 0.1A | 1.0A | 1.5A | 2.0A | 120mV | +5% | 1 |
| | -5V | 0.0A | 0.3A | 0.5A | 0.5A | 50mV | +5% | 6 |
| PSA-25-305 | +5.1V | 0.3A | 2.0A | 3.0A | 4.0A | 50mV | +2% | 2,3 |
| | +15V | 0.1A | 0.7A | 1.2A | 1.2A | 150mV | +5% | 1 |
| | -15V | 0.0A | 0.3A | 0.5A | 1.0A | 150mV | +5% | 6 |

(1) Total output power must not exceed 25W at convection cooling and 40W 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 40W.
(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.

PI-ING

**ISO 9001 • BABT • MITI**
**Facility Approvals**

# 25W Universal Input Series

# PSA-25 Switching Power Supply

## Characteristics

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

**AC Frequency**
47 to 63Hz

**AC Input Current**
0.8A(rms) for 115VAC
0.4A(rms) for 230VAC

**DC Output**
See Chart

**Efficiency**
70% typical at full load

**Hold-up Time**
16msec. at full load,
115VAC input

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

**Overcurrent Protection**
All outputs equipped with automatic recovery current limiting circuit

**Operation Temperature**
0 to +40˚C

**Temperature Coefficient**
0.04% per ˚C

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

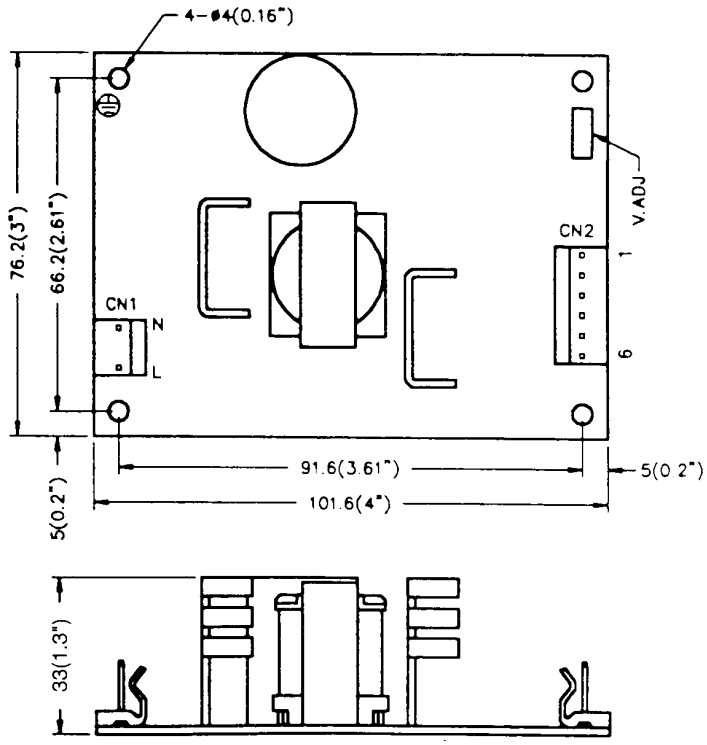
**Insulation Resistance**
50M ohm min. from input to output, input to ground

**MTBF**
Calculated
Greater than 100,000 hours, (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

## Dimension Diagram Unit: mm (inch)




**Mating: 09-50-3061**
Output Connections: (Multiples)
Pins 1,2,3,6 - See chart on front
Pins 4,5 Common return
CN1: 09-50-3031

**Mating: 09-50-3041**
Output Connections: (Singles)
Four pin connector
Pins 1,2 - Positive
Pins 3,4 - Return

25/704


**PHIHONG 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 CORPORATION**

*U.S. Headquaters:*
48607 Warm Springs Blvd.
Fremont, CA 94539
Phone: (510) 445-0100
Fax: (510) 445-1678
Email: usasales@phihongusa.com
Internet: http://www.phihongusa.com

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

*Southwestern Office:*
3325 Cochran St., Suite 200
Simi Valley, CA 93063
Phone: (805) 520-8177
Fax: (805) 520-3907

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