



- Class II Configuration
- Efficiency Level VI
- <100mW No Load Power Consumption
- Short Circuit Protection
- Overload Protection
- No Load Operation



### Electrical Specifications

#### Input

|                           |  |
|---------------------------|--|
| Input Voltage             | 90-264VAC                                |
| Input Frequency           | 47-63 Hz                                 |
| Input Current             | 1.3A Max.                                |
| Inrush Current            | <40A peak @ 264VAC, cold start at 25°C   |
| No Load Power Consumption | < 100mW, meets DOE level VI Requirements |

#### Output

|                    |   |
|--------------------|---|
| Output Power       | 36W, see table for details  |
| Output Voltage     | see table   |
| Turn On Time       | <3S @100-200VAC input & full output load                                    |
| Rise Time          | 20mS max. @ full load   |
| Fall Time          | 20mS max. @ full load   |
| Line Regulation    | ± 1% of rated output voltage at full load                                   |
| Load Regulation    | ± 5% of rated voltage from 0 to full load                                   |
| Transient Response | Maximum voltage excursion of 5% for 25% load change with 0.25A/uS slew rate |
| Efficiency         | Meets DOE level VI requirements   |

#### Protection

|                          |   |
|--------------------------|---|
| Short Circuit Protection | Hiccup mode. Auto recovery.                                 |
| Overcurrent Protection   | 150-200% of rated current. Auto-restart when fault removed. |

#### Environmental & Operating

|                       |  |
|-----------------------|--|
| Operating Temperature | 0°C to +40°C   |
| Storage Temperature   | -20°C to +80°C   |
| Humidity              | 10% - 90% non-condensing                                       |
| MTBF:                 | >100,000 hours per MIL-HDBK-217F at full load and 25°C ambient |

#### Compliance

##### Safety Approvals

|        |            |
|--------|------------|
| USA    | UL60950-1  |
| Canada | cUL60950-1 |

##### EMC:

FCC Class B Radiated & Conducted

##### Harmonic Currents Voltage Flicker Electrostatic Discharge Radiated Immunity EFT/Burst Surge Immunity Conducted Immunity Magnetic Field Dips / Interruptions

IEC 61000-3-2  
IEC 61000-3-3  
IEC 61000-4-2: ±8 KV air, ±4 KV contact  
IEC 61000-4-3: 3V/m  
IEC 61000-4-4: ±1 KV  
IEC 61000-4-5: ±1 KV differential mode  
IEC 61000-4-6: 3Vrms  
IEC 61000-4-8: 1A/m  
IEC 61000-4-11: 30% reduction for 500 ms, and >95% reduction for 10 ms

#### General

|                         |  |
|-------------------------|--|
| Dimensions              | 3.82"(97.1mm) x 1.78"(45.1mm) x 1.26"(32mm)  |
| AC Input<br>Output Plug | Fixed North America AC Blade (others available)<br>Barrel Type: 5.5mm x 2.5mm x 10mm<br>Center positive (others available) |
| Weight                  | 0.44 pounds  |

| Model No.                   | Output voltage | Current | Total Power | Output Regulation | Ripple & Noise (Vp-p) <sup>2</sup> | Efficiency Level |
|-----------------------------|----------------|---------|-------------|-------------------|------------------------------------|------------------|
| PSAW36NA-10-B2 <sup>1</sup> | 5V             | 4A      | 20W         | ±5%               | 100mV                              | VI               |
| PSAW36NA-11-B2              | 9V             | 4A      | 36W         | ±5%               | 100mV                              | VI               |
| PSAW36NA-12-B2              | 12V            | 3A      | 36W         | ±5%               | 120mV                              | VI               |
| PSAW36NA-13-B2              | 15V            | 2.4A    | 36W         | ±5%               | 150mV                              | VI               |
| PSAW36NA-13-1-B2            | 18V            | 2A      | 36W         | ±5%               | 180mV                              | VI               |
| PSAW36NA-13-2-B2            | 19V            | 1.89A   | 36W         | ±5%               | 190mV                              | VI               |
| PSAW36NA-14-B2              | 24V            | 1.5A    | 36W         | ±5%               | 200mV                              | VI               |
| PSAW36NA-17-B2              | 36V            | 1A      | 36W         | ±5%               | 200mV                              | VI               |

1. PSAW36NA-10-B2 is equipped with a 1m output cable. All other models are equipped with a 1.2m output cable as standard.
2. Ripple and noise is measured at output within 20MHz bandwidth, at rated line voltage and full load, with a 10  $\mu$ F tantalum capacitor in parallel with a 0.1  $\mu$ F ceramic capacitor across the output.

### Mechanical Outline

