



Wall Industries, Inc.

**PSASC Series**  
 30 Watt  
 Encapsulated PCB Mount  
 Single, Dual, and Triple Output  
 AC/DC Switching Power Supply

**FEATURES**

- Built-in EMI Filter
- Approvals: TUV/CE
- Full Range AC Input
- PWM Control Circuit
- DC Output Plug Option
- Low Cost, High Reliability
- Fully Enclosed Plastic Case
- 100% Full Load Burn-in Tested
- 2 Round Pin (Euro Plug-In), Class II
- Overload and Short Circuit Protection
- MTBF > 200,000 Hours per MIL-HDBK-F @ 25°C



| <b>SPECIFICATIONS: PSASC Series</b>   |  |
|---|--|
| All specifications are based on 25°C, Nominal Input Voltage, and Maximum Output Current unless otherwise noted.<br>We reserve the right to change specifications based on technological advances. |  |
| INPUT SPECIFICATIONS  |  |
| Input Voltage Range   | 90 ~ 260VAC  |
| Input Frequency   | 47 ~ 440Hz   |
| OUTPUT SPECIFICATIONS   |  |
| Output Voltage  | See Table  |
| Output Power Range  | 30 Watts max.  |
| Voltage Accuracy  | ±2%  |
| Line Regulation (LL – HL)   | Single & Dual Outputs: ±1%; Triple Output: 5V (±1%), ±12V & ±15V (±5%)           |
| Load Regulation (5% to 100%)  | Single Output: ±1%; Dual Output: ±3%; Triple Output: 5V (±2%), ±12V & ±15V (±6%) |
| Output Current  | See Table  |
| Ripple (Vp-p)   | 0.2% +40mVp-p max.   |
| Noise (Vp-p)  | 0.5% +50mVp-p max.   |
| Temperature Coefficient   | ±0.02%/°C  |
| PROTECTION  |  |
| Short Circuit Protection  | Hiccup mode, indefinite (automatic recovery)                                     |
| GENERAL SPECIFICATIONS  |  |
| Switching Frequency   | 100KHz   |
| Efficiency  | See Table  |
| Isolation Voltage (Input to Output)   | 3000VAC  |
| Isolation Resistance  | 10GΩ min.  |
| ENVIRONMENTAL SPECIFICATIONS  |  |
| Operating Temperature   | -25°C to +71°C   |
| Storage Temperature   | -40°C to +85°C   |
| Cooling   | Free air convection  |
| PHYSICAL SPECIFICATIONS   |  |
| Case Material   | P.B.T. + Fiberglass  |
| Weight  | 220g   |
| Dimensions  | 3.5(L) x 2.5(W) x 0.98(H) inches (89.0(L) x 63.5(W) x 25.0(H) mm)                |



Wall Industries, Inc.

PSASC Series  
30 Watt  
Encapsulated PCB Mount  
Single, Dual, and Triple Output  
AC/DC Switching Power Supply

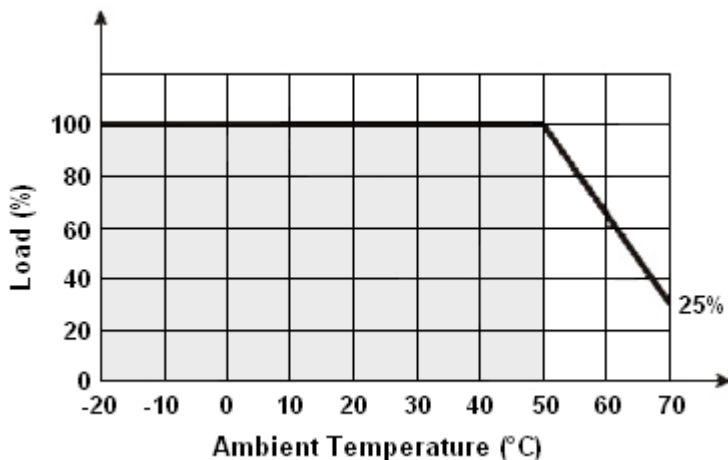
OUTPUT VOLTAGE / CURRENT RATING CHART

| Model Number | Input Voltage | Output Voltage               | Output Current             | Efficiency |
|--------------|---------------|------------------------------|----------------------------|------------|
| PSASC-3.3S   | 90 –260 VAC   | 3.3 VDC                      | 6000mA                     | 73%        |
| PSASC-5S     | 90 –260 VAC   | 5 VDC                        | 6000mA                     | 77%        |
| PSASC-12S    | 90 –260 VAC   | 12 VDC                       | 2500mA                     | 81%        |
| PSASC-15S    | 90 –260 VAC   | 15 VDC                       | 2000mA                     | 81%        |
| PSASC-24S    | 90 –260 VAC   | 24 VDC                       | 1250mA                     | 80%        |
| PSASC-5D     | 90 –260 VAC   | +5 VDC<br>- 5 VDC            | +3000mA<br>-3000mA         | 75%        |
| PSASC-12D    | 90 –260 VAC   | +12 VDC<br>-12 VDC           | +1300mA<br>-1300mA         | 80%        |
| PSASC-15D    | 90 –260 VAC   | +15 VDC<br>-15 VDC           | +1000mA<br>-1000mA         | 81%        |
| PSASC-5S12S  | 90 –260 VAC   | +5 VDC<br>+12 VDC            | 3000mA<br>1250mA           | 79%        |
| PSASC-5S12D  | 90 –260 VAC   | +5 VDC<br>+12 VDC<br>-12 VDC | 3000mA<br>+630mA<br>-630mA | 80%        |
| PSASC-5S15D  | 90 –260 VAC   | +5 VDC<br>+15 VDC<br>-15 VDC | 3000<br>+500mA<br>-500mA   | 80%        |

NOTES

1. Dimensions of the mechanical drawing are shown in millimeters.
2. Weight of the unit is 220 grams

DERATING CURVE

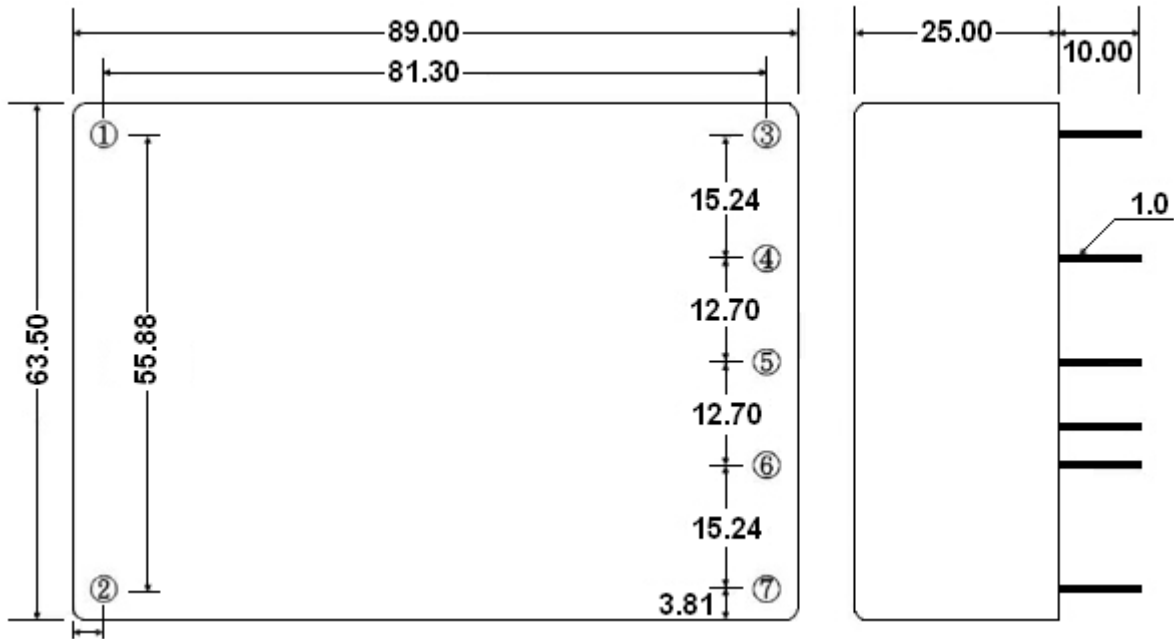




Wall Industries, Inc.

PSASC Series  
30 Watt  
Encapsulated PCB Mount  
Single, Dual, and Triple Output  
AC/DC Switching Power Supply

MECHANICAL DRAWING



| PIN CONNECTION |            |           |           |           |
|----------------|------------|-----------|-----------|-----------|
| PIN #          | SINGLE     | DUAL      | 5S/12S    | TRIPLE    |
| 1              | AC IN (N)  | AC IN (N) | AC IN (N) | AC IN (N) |
| 2              | AC IN (L)  | AC IN (L) | AC IN (L) | AC IN (L) |
| 3              | +DC OUT    | +DC OUT   | +12V      | +DC OUT   |
| 4              | NO PIN     | NO PIN    | +5V       | +5V       |
| 5              | -DC OUT    | COMMON    | +12 RTN   | COMMON    |
| 6              | NO PIN     | NO PIN    | +5 RTN    | +5 RTN    |
| 7              | NO CONNECT | -DC OUT   | NO PIN    | -DC OUT   |