



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



SPECIFICATIONS: PSASC Series

All specifications are based on 25°C, Nominal Input Voltage, and Maximum Output Current unless otherwise noted.
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)



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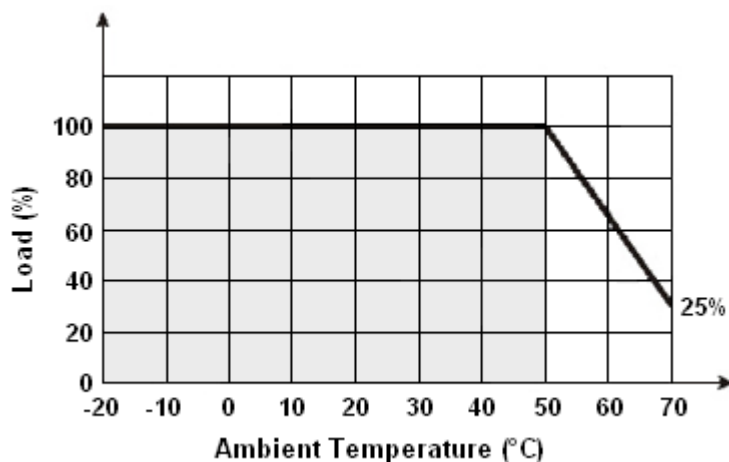
OUTPUT VOLTAGE / CURRENT RATING CHART

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 - 5 VDC	+3000mA -3000mA	75%
PSASC-12D	90 –260 VAC	+12 VDC -12 VDC	+1300mA -1300mA	80%
PSASC-15D	90 –260 VAC	+15 VDC -15 VDC	+1000mA -1000mA	81%
PSASC-5S12S	90 –260 VAC	+5 VDC +12 VDC	3000mA 1250mA	79%
PSASC-5S12D	90 –260 VAC	+5 VDC +12 VDC -12 VDC	3000mA +630mA -630mA	80%
PSASC-5S15D	90 –260 VAC	+5 VDC +15 VDC -15 VDC	3000 +500mA -500mA	80%

NOTES

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

DERATING CURVE





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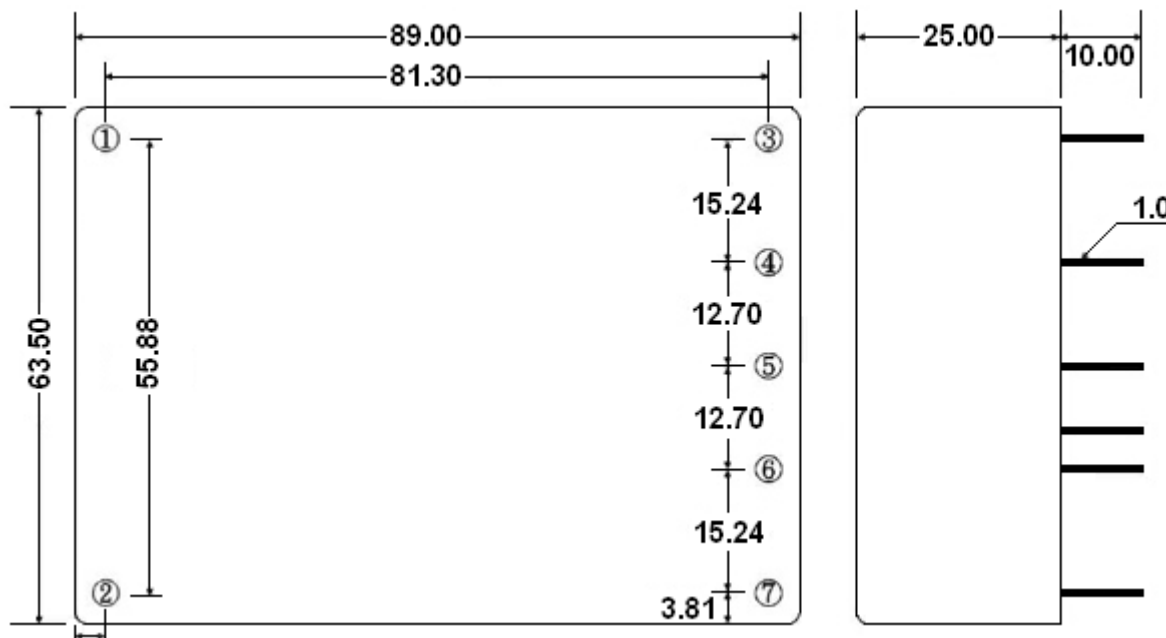
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MECHANICAL DRAWING



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