

### FEATURES

- Single Output
- 2 Year Warranty
- CE, UL Approvals
- 4000VAC Input to Output Isolation
- Universal Input Range: 85~265VAC
- -40°C to +70°C Operating Temperature
- Switching Power Module for PCB Mounting
- Output Voltages Available from 5VDC to 48VDC
- Over Power, Over Voltage, and Short Circuit Protected



### DESCRIPTION

The PSAEC60 series of AC/DC power supplies offers 60 watts in an encapsulated design. This series has single output models with a universal input range. All supplies are over power, over voltage, and short circuit protected. This series is ideal for PCB mounting. Please call factory for ordering details.

### SPECIFICATIONS: PSAEC60 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	85 ~ 265VAC or 100 ~ 370 VDC
Input Frequency	47 ~ 65Hz
Input Current (Full Load)	2A max @ 115VAC, 1A max @ 230VAC
Inrush Current (< 2ms)	30A max @ 115VAC, 50A max @ 230VAC
Leakage Current	0.5mA max
OUTPUT SPECIFICATIONS	
Output Voltage	See Table
Output Power	See Table
Voltage Accuracy	±2%
Line Regulation (LL – HL)	±1% typical
Load Regulation (5% to 100%)	±1% typical
Output Current	See Table
Trim	±10%
Ripple (Vp-p)	< 0.2% Vout +40mV max.
Noise (Vp-p)	< 0.5% Vout +50mV max.
Minimum Load	1%
Maximum Capacitive Load	470-23,000µF depending on model.
Hold Up Time	10ms min.
Temperature Coefficient	±0.02%/°C
PROTECTION	
Over Power Protection	Auto-recovery
Over Voltage Protection	Zener diode clamp
Short Circuit Protection	Auto-recovery
GENERAL SPECIFICATIONS	
Switching Frequency	100KHz
Efficiency	See Table
Isolation Voltage (Input to Output)	4000VAC (input to output); 2000VAC (input to FG); 500VAC (output to FG)
Isolation Resistance	100MΩ (input to output)
ENVIRONMENTAL SPECIFICATIONS	
Operating Temperature	-40°C to +70°C (with derating)
Storage Temperature	-50°C to +85°C
Humidity	95% RH
Cooling	Free air convection
MTBF	> 130,000 hours @ 25°C (MIL-HDBK-217F)
PHYSICAL SPECIFICATIONS	
Weight	310g
Dimensions	4.29(L) x 2.30(W) x 1.18(H) inches 109.0(L) x 58.5(W) x 30.0(H) mm
Warranty	2 years
SAFETY & EMC	
Agency Approvals	CE, UL60950
EMI (Conducted & Radiated Emission)	EN 55022 class B
EMS (Noise Immunity)	EN 55024

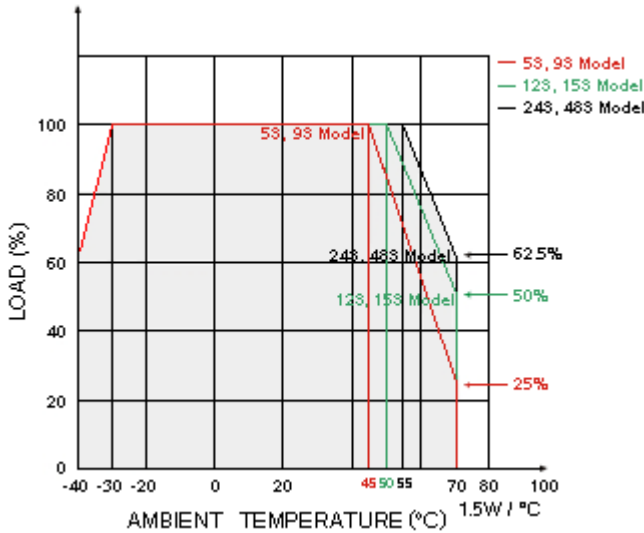
### OUTPUT VOLTAGE / CURRENT RATING CHART

Model Number	Input Voltage	Output Voltage	Output Current	Output Power	Efficiency
PSAEC60-5S	85 ~ 265 VAC	5 VDC	10A	50W	82%
PSAEC60-9S	85 ~ 265 VAC	9 VDC	6.66A	60W	84%
PSAEC60-12S	85 ~ 265 VAC	12 VDC	5A	60W	86%
PSAEC60-15S	85 ~ 265 VAC	15 VDC	4A	60W	86%
PSAEC60-24S	85 ~ 265 VAC	24 VDC	2.5A	60W	86%
PSAEC60-48S	85 ~ 265 VAC	48 VDC	1.25A	60W	86%

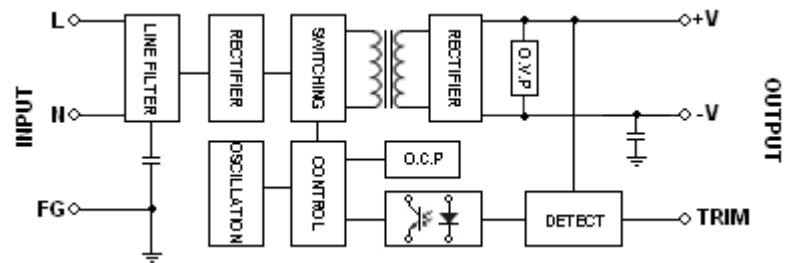
### NOTES

1. Output Noise is measured with a 47µF 50V // 0.1µF 50V ceramic capacitors across the output.

### DERATING CURVE

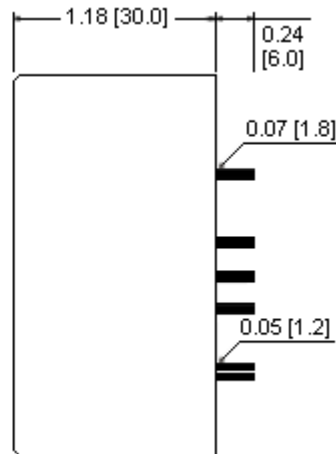
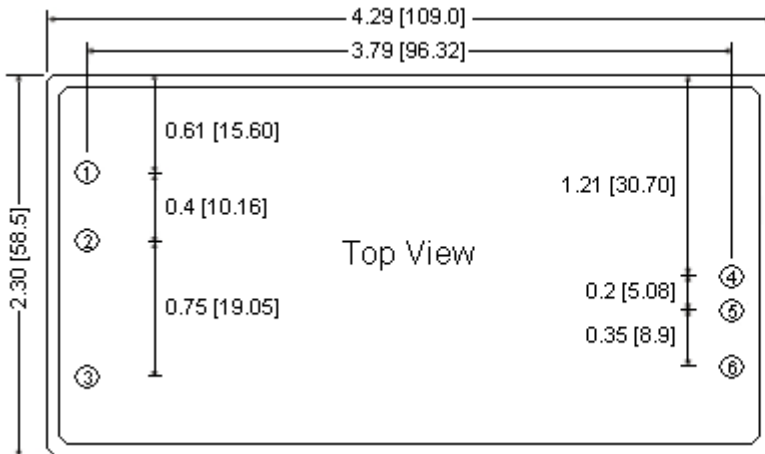


### BLOCK DIAGRAM



### MECHANICAL DRAWING

Unit: inches [mm]



PIN CONNECTION	
Pin	Single Output
1	AC IN (N)
2	AC IN (L)
3	FG
4	+DC OUT
5	-DC OUT
6	TRIM

Tolerance: ±0.5mm