

FEATURES

- High Efficiency
- 2 Year Warranty
- Regulated Output
- Low Ripple and Noise
- CE, UL, TUV Approval
- Fully Encapsulated Plastic Case
- Switching Power Module for PCB Mounting
- Universal Input Range 90-264VAC, 47-440 Hz





	on 25°C, Nominal Input Voltage, and Maximum Output Current unless otherwise noted.	
We reserve INPUT SPECIFICATIONS	e the right to change specifications based on technological advances.	
	90 ~ 264VAC or 120 ~ 370VDC	
Input Voltage Range	90 ~ 264 VAC 01 120 ~ 370 VDC 47 to 440 Hz	
Input Frequency Input Current		
•	110mA max @ 115VAC / 70mA max @ 230VAC	
Inrush Current (<2ms)	10A max @ 115VAC / 20A max @230VAC 0.75mA max	
Leakage Current OUTPUT SPECIFICATIONS	U.75MA Max	
	Con Table	
Output Voltage Output Power Range	See Table 5 Watts max.	
Output Power Range Voltage Accuracy	5 Watts max. ±2%	
•		
Line Regulation (LL – HL)	±0.3% typical	
Load Regulation (5% to 100%)	±0.5% typical	
Output Current	See Table	
Minimum Load	See Table	
Ripple	< 0.2% Vout +40mV max (Vp-p)	
Noise	< 0.5% Vout +50mV max (Vp-p)	
Maximum Capacitive Load	470 - 23,000μF depending on model	
Hold-Up Time	15ms min.	
Temperature Coefficient	±0.02%/°C	
PROTECTION		
Over Power Protection	Hiccup technique, auto-recovery	
Over Voltage Protection	Zener diode clamp	
Short Circuit Protection	Hiccup mode, indefinite (automatic recovery)	
Input Fuse Recommendation	1.5A slow blow type	
GENERAL SPECIFICATIONS		
Switching Frequency	100KHz	
Efficiency	See Table	
Isolation Voltage (Input to Output)	3000VAC	
Isolation Voltage (Input to Field Ground)	1500VAC	
Isolation Voltage (Output to Field Ground)	500VAC	
ENVIRONMENTAL SPECIFICATIONS		
Operating Temperature	-25°C to +70°C (with derating)	
Storage Temperature	-40°C to +85°C	
Humidity	95% RH	
Cooling	Free air convection	
MTBF	> 300,000 hours @ 25°C (MIL-HDBK-217F)	
PHYSICAL SPECIFICATIONS		
Weight	80g	
Case Material	Plastic resin with fiberglass (flammability to UL 94V-0)	
Dimensions	2.17(L) x 1.77(W) x 0.81(H) inches (55.0(L) x 45.0(W) x 20.5(H) mm)	
SAFETY & EMC		
Agency Approvals	UL/cUL, CE, TUV	
EMI (Conducted & Radiated Emission)	EN 55022 class B	
EMS (Noise Immunity)	EN 50082-1	



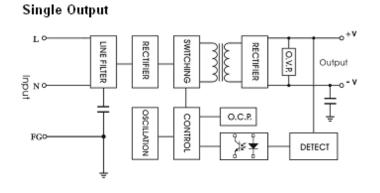
OUTPUT VOLTAGE / CURRENT RATING CHART

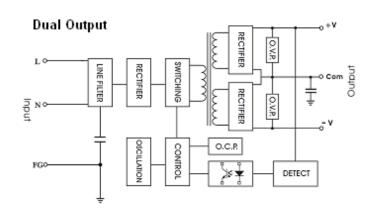
Model Number	Output Voltage	Minimum Load	Output Current	Max Output Power	Efficiency
PSAPC-3.3S	3.3 VDC	4%	1500mA	5W	62%
PSAPC-5S	5 VDC	1%	1000mA	5W	65%
PSAPC-12S	12 VDC	1%	416mA	5W	70%
PSAPC-15S	15 VDC	0%	333mA	5W	70%
PSAPC-24S	24 VDC	0%	200mA	5W	71%
PSAPC-5D	±5 VDC	0%	±500mA	5W	70%
PSAPC-12D	±12 VDC	0%	±200mA	5W	67%
PSAPC-15D	±15 VDC	3%	±160mA	5W	67%

NOTES

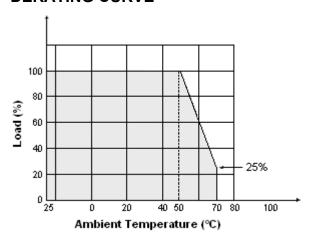
- 1. Dimensions of the mechanical drawing are shown in millimeters.
- 2. Weight of the unit is 80 grams.

BLOCK DIAGRAMS





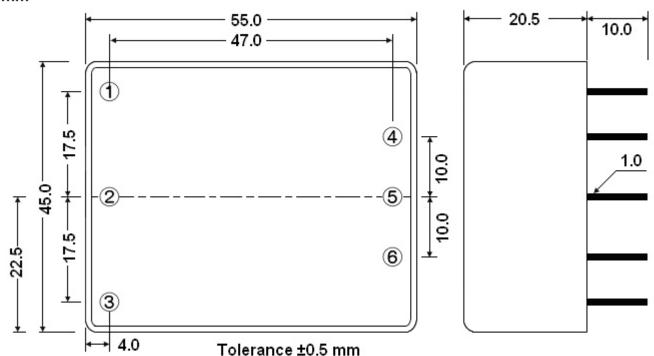
DERATING CURVE





MECHANICAL DRAWING

Unit: mm



PIN CONNECTION					
PIN#	SINGLE	DUAL			
1	FG	FG			
2	AC IN (N)	AC IN (N)			
3	AC IN (L)	AC IN (L)			
4	-DC OUT	-DC OUT			
5	NO PIN	COMMON			
6	+DC OUT	+DC OUT			