

# **FEATURES**

- High Efficiency
- 2 Year Warranty
- Regulated Output
- Low Ripple and Noise
- CE, cUL, TUV Approval
- Fully Encapsulated Plastic Case
- Switching Power Module for PCB Mounting
- Universal Input Range 90-260VAC, 47-440 Hz



	on 25°C, Nominal Input Voltage, and Maximum Output Current unless otherwise noted. ve the right to change specifications based on technological advances.		
INPUT SPECIFICATIONS	re the right to change specifications based on technological advances.		
Input Voltage Range	90 ~ 260VAC or 120 ~ 370VDC		
Input Frequency	47 to 440Hz		
Input Current (Full Load)	200mA max @ 115VAC / 130mA max @ 230VAC		
Inrush Current (<2ms)	10A max @ 115VAC / 20A max @230VAC		
Leakage Current	0.75mA max		
OUTPUT SPECIFICATIONS			
Output Voltage	See Table		
Output Power Range	10 Watts max.		
Voltage Accuracy	±2%		
Line Regulation	±0.3% typical		
Load Regulation (5% to 100%)	±0.5% typical		
Output Current	See Table		
Minimum Load	See Table		
Ripple & Noise	< 0.5% Vout +50mV max (Vp-p)		
Maximum Capacitive Load	470 - 23,000μF depending on model		
Hold-Up Time	15ms min.		
Current Limitation (Dual Outputs)	120 ~ 180% fold back		
Temperature Coefficient	±0.02%/°C		
PROTECTION			
Over Current 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 +71°C		
Storage Temperature	-40°C to +85°C		
Humidity	95% RH		
Cooling	Free air convection		
MTBF	> 250,000 hours @ 25°C (MIL-HDBK-217F)		
PHYSICAL SPECIFICATIONS			
Weight	100g		
Case Material	Plastic resin + fiberglass (flammability to UL 94V-0)		
Dimensions	2.52(L) x 1.77(W) x 0.81(H) inches (64.0(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		



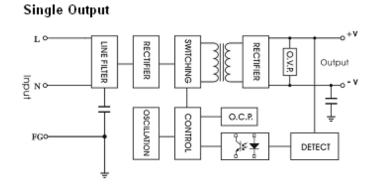
#### **OUTPUT VOLTAGE / CURRENT RATING CHART**

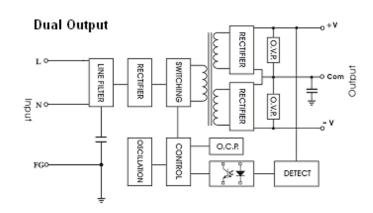
Model Number	Output Voltage	Minimum Load	Output Current	Max Output Power	Efficiency
PSATC-3.3S	3.3 VDC	4%	3000mA	10W	68%
PSATC-5S	5 VDC	5%	2000mA	10W	71%
PSATC-12S	12 VDC	5%	833mA	10W	76%
PSATC-15S	15 VDC	3%	666mA	10W	76%
PSATC-24S	24 VDC	5%	416mA	10W	80%
PSATC-5D	±5 VDC	1%	±800mA	8W	72%
PSATC-12D	±12 VDC	3%	±380mA	10W	77%
PSATC-15D	±15 VDC	1%	±300mA	10W	77%

## **NOTES**

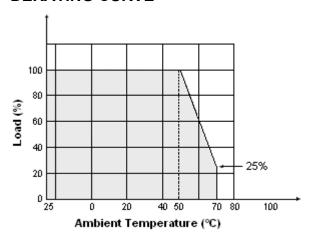
- 1. Dimensions of the mechanical drawing are shown in millimeters.
- 2. Weight of the unit is 100 grams.

# **BLOCK DIAGRAMS**



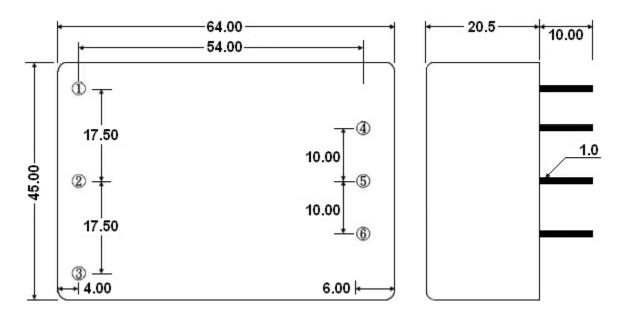


# **DERATING CURVE**





# **MECHANICAL DRAWING**



PIN CONNECTIONS						
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				