

## FEATURES

- 2 Year Warranty
- 100% Full Load Burn-In Test
- Universal AC Input/ Full Range
- Low Leakage Current < 0.75mA
- Cooling by Free Air Convection
- Fixed Switching Frequency at 65KHz
- Short Circuit, Overload, and Over Voltage Protected



## SPECIFICATIONS: PSPT65 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	90 – 264VAC (127 – 370VDC)	
Input Frequency	47 ~ 440Hz	
AC Current (typical)	1.5A @ 115VAC	0.9A @ 230VAC
Inrush Current	20A @ 115VAC cold start	40A @ 230VAC cold start.
Leakage Current	< 0.75mA	

### OUTPUT SPECIFICATIONS

Output Voltage	See Table		
Voltage Tolerance (See Note 3)	PSPT-65A,B,C: CH 1: ±4% CH.2: ±7% CH 3: ±5%	PSPT-65D: CH 1: ±4% CH.2: ±6% CH 3: ±6%	
Voltage Adjustment Range	CH1: 4.75 ~ 5.5V		
Output Power (max)	Rated output power for convection; 72W with 18CFM min. forced air.		
Line Regulation	PSPT-65A,B,C: CH 1: ±1% CH.2: ±2% CH 3: ±1%	PSPT-65D: CH 1: ±1% CH.2: ±2% CH 3: ±3%	
Load Regulation	PSPT-65A,B,C: CH 1: ±3% CH.2: ±4% CH 3: ±1%	PSPT-65D: CH 1: ±2% CH.2: ±5% CH 3: ±5%	
Output Current	See Table		
Ripple & Noise (See Note 2)	See table		
Setup, Rise Time	800ms, 20ms at full load		
Hold Up Time	60ms at full load		
Temperature Coefficient	±0.04%/°C (0~50°C) on +5V output.		

### PROTECTION

Over Voltage Protection	CH.1: 5.75 ~ 6.75VDC on CH 1 Protection Type: Hiccup mode, recovers automatically after fault condition is removed.
Overload Protection	73 ~ 95W rated output power. Protection Type: Hiccup mode, recovers automatically after fault condition is removed.

### GENERAL SPECIFICATIONS

Switching Frequency (fixed)	65KHz
Efficiency (typical)	See table
Withstand Voltage	3KVAC (input to output), 1.5KVAC (input to FG), 0.5KVAC (output to FG). All for one minute.
Isolation Resistance	100MΩ / 500VDC (input to output, input to FG, output to FG)

### ENVIRONMENTAL SPECIFICATIONS

Working Temperature	-10°C to +60°C (refer to output load derating curve)
Storage Temperature	-20°C to +85°C
Working Humidity (non-condensing)	20% ~ 90% RH non-condensing
Storage Humidity (non-condensing)	10% ~ 95% RH
Vibration	10~500Hz, 2G 10min./1cycle, Period for 60 minutes each along X, Y, and Z axes.
MTBF	277,200 hours min. MIL-HDBK-217 (25°C)

### PHYSICAL SPECIFICATIONS

Weight	28 oz.
Dimensions	127(L) x 76(W) x 42(H) mm
Warranty	2 years

### SAFETY & EMC

Safety Standards	UL60950-1, TUV EN60950-1 Approved
EMI Conduction and Radiation	Compliance to EN55022 (CISPR22) Class B
Harmonic Current	Compliance to EN61000-3-2,3
EMS Immunity	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024, Light industry level, criteria A.

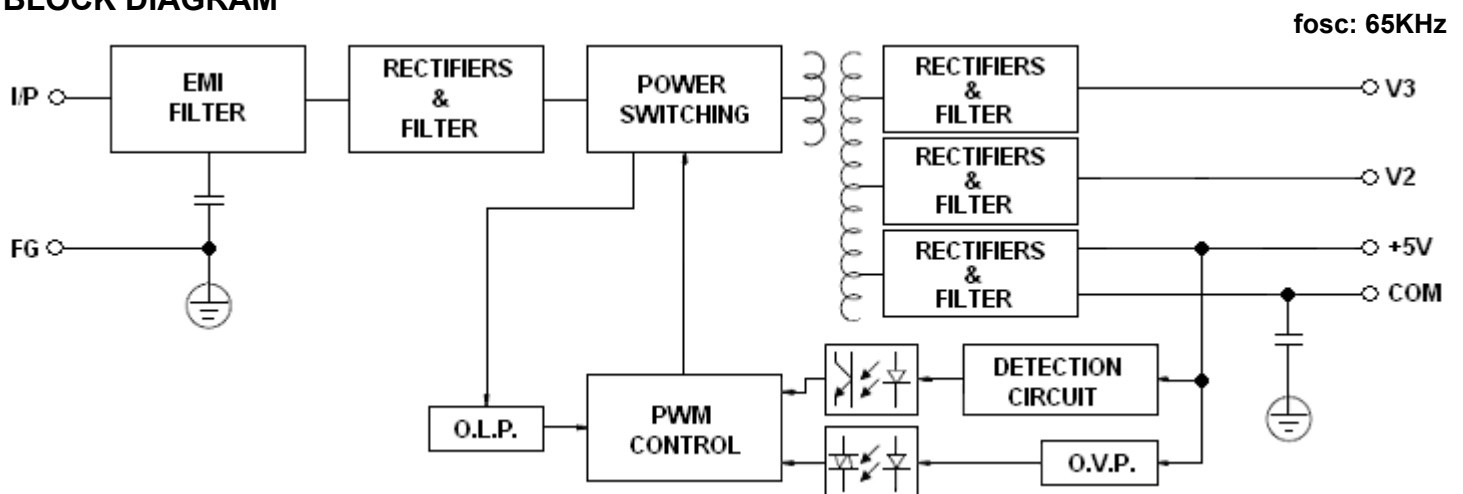
**OUTPUT VOLTAGE / CURRENT RATING CHART**

Model		Input Voltage	Output Voltage	Output Current Range	Rated Output Current	Ripple & Noise	Output Power	Efficiency
PSPT-65A	Channel 1	90~264 VAC (127~370 VDC)	5 VDC	0.4 ~ 7A	5.5A	50mVp-p	60W	76%
	Channel 2		12 VDC	0.2 ~ 3.2A	2.5A	120mVp-p		
	Channel 3		-5 VDC	0 ~ 0.7A	0.5A	50mVp-p		
PSPT-65B	Channel 1		5 VDC	0.4 ~ 7A	5.5A	50mVp-p	63.5W	77%
	Channel 2		12 VDC	0.2 ~ 3.2A	2.5A	120mVp-p		
	Channel 3		-12 VDC	0 ~ 0.7A	0.5A	100mVp-p		
PSPT-65C	Channel 1		5 VDC	0.4 ~ 7A	5.5A	50mVp-p	65W	77%
	Channel 2		15 VDC	0.2 ~ 2.6A	2A	120mVp-p		
	Channel 3		-15 VDC	0 ~ 0.7A	0.5A	100mVp-p		
PSPT-65D	Channel 1		5 VDC	0.5 ~ 5A	4A	50mVp-p	68W	79%
	Channel 2		12 VDC	0.2 ~ 4A	2A	100mVp-p		
	Channel 3		24 VDC	0.2 ~ 1.3A	1A	200mVp-p		

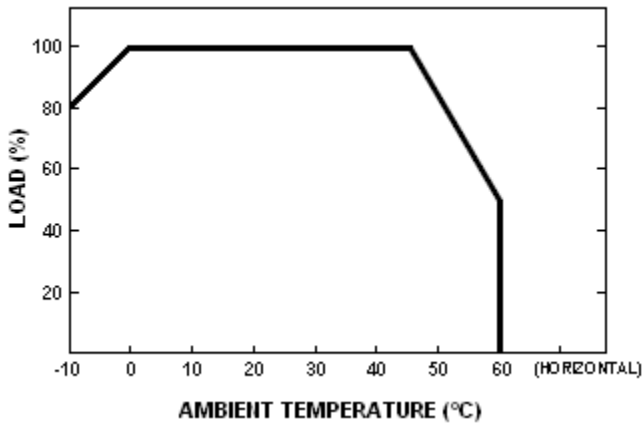
**NOTES**

1. All parameters not specially mentioned are measured at 230VAC input, rated load, and 25°C ambient temperature.
2. Ripple & noise are measured at 20MHz using a 12" twisted pair-wire terminated with 0.1uF & 47uF capacitors in parallel.
3. Tolerance: includes set up tolerance, line regulation, and load regulation.
4. The power supply is considered a component, which will be installed into final equipment. The final equipment must be re-confirmed that it still meets EMC directives.
5. Mounting holes M1 and M2 should be grounded for EMI purposes.

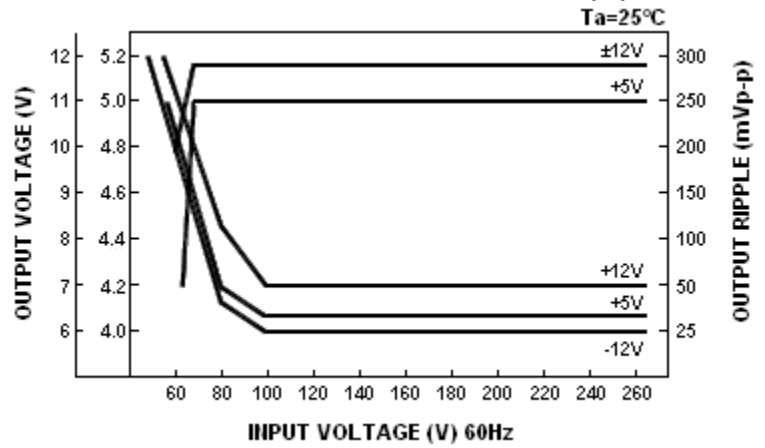
**BLOCK DIAGRAM**



**DERATING CURVE**

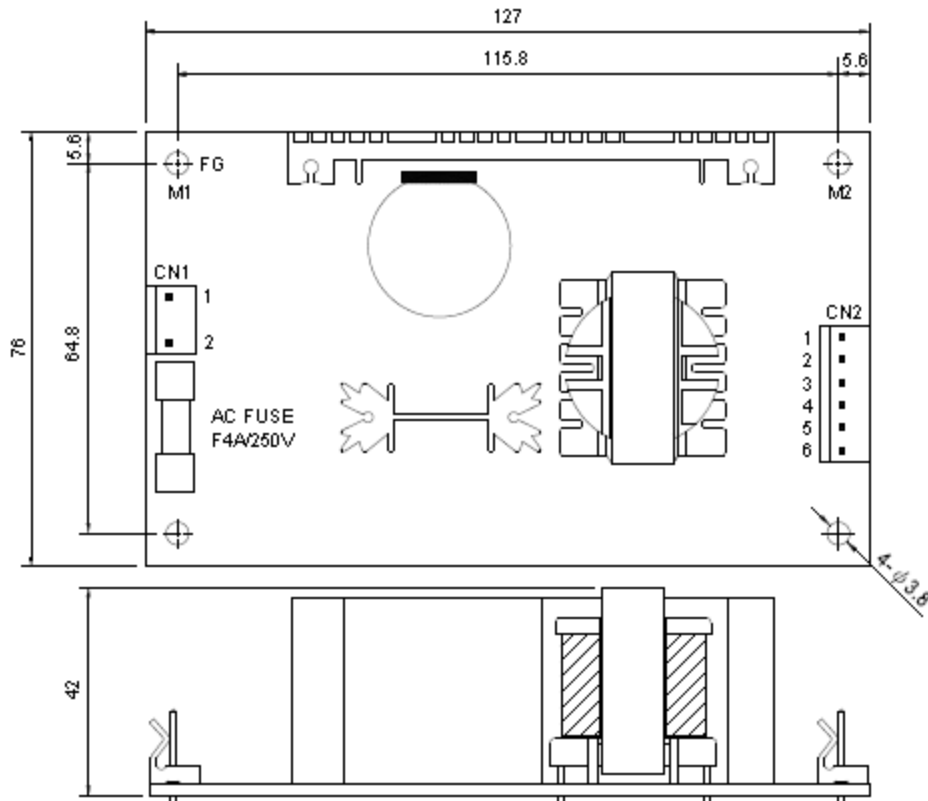


**STATIC CHARACTERISTICS (B)**



**MECHANICAL DRAWING**

Unit: mm



AC INPUT CONNECTOR (CN1)	
Pin. No	Assignment
1	AC/N
2	AC/L

DC OUTPUT CONNECTOR (CN2)	
Pin No.	Assignment
1	V2
2,3	+5V
4,5	COM
6	V3

**PIN 2: +5V PIN 3,4,5: COM only for PSPT-65D**