

FEATURES

- 3 Year Warranty
- Low Cost, High Reliability
- Fixed Switching Frequency
- LED Indicator for Power On
- 100% Full Load Burn-In Tested
- Universal AC Input / Full Range
- Remote ON/OFF Control (Optional)
- Built-In Active PFC Function, PF > 0.93
- Built-In Constant Current Limiting Circuit
- Soft Start Circuit, Limiting AC Surge Current
- Short Circuit, Overload, and Over Voltage Protected





SPECIFICATIONS: PSSP100 Series				
All specifications are based	I 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				
Input Voltage Range	85 ~ 264VAC (120 ~ 370VDC)			
Input Frequency	47 to 63Hz			
AC Current (typical)	1.7A @ 115VAC 0.8A @ 230VAC			
Inrush Current (typical)	Cold Start 30A @ 230VAC			
Leakage Current	< 2mA @ 240VAC			
Power Factor (typical)	PF > 0.93 @ 230VAC PF > 0.98 @ 115VAC and full load			
Remote ON/OFF Control (Option)	CN1: 4~10VDC Power On, <0 ~ 0.8VDC Power Off			
OUTPUT SPECIFICATIONS				
Output Voltage	See Table			
Output Power	See Table			
Voltage Tolerance (See Note 3)	3.3V - 15V outputs: 2.0%; 24V - 48V outputs: 1.0%			
Voltage Adjustment Range	See Table			
Line Regulation	0.5%			
Load Regulation	3.3V - 7.5V outputs: 1.0%; 12V - 48V outputs: 0.5%			
Output Current	See Table			
Ripple & Noise (max) (See Note 2)	3.3V - 15V outputs: 100mVp-p; 24V & 27V outputs: 150mVp-p; 48V output: 250mVp-p			
Setup, Rise Time	600ms, 30ms @ full load			
Hold Up Time (typical)	20ms @ full load			
Temperature Coefficient	±0.05%/°C (0 ~ 50°C)			
PROTECTION	1 20.00 / 10 00 0 0			
	105 ~ 150% rated output power			
Overload Protection	Protection Type: Constant current limiting; recovers automatically after fault condition is remove			
a .v	See Table			
Over Voltage	Protection Type: Shutdown output voltage, re-power on to recover.			
GENERAL SPECIFICATIONS				
Switching Frequency	PFC: 67KHz PWM: 134KHz			
Efficiency (typical)	See Table			
Withstand Voltage	3000VAC (Input to Output), 1500VAC (Input to FG), 500VAC (Output to FG)			
Isolation Resistance	100MΩ/500DC (Input to Output, Input to FG, and Output to FG)			
ENVIRONMENTAL SPECIFICATIONS	(input to daspet, input to daspet to to)			
Working Temperature	-10°C to +60°C (refer to output load derating curve)			
Storage Temperature	-20°C to +85°C			
Working Humidity	20 ~ 90% RH non-condensing			
Storage Humidity	10 ~ 95% RH			
Vibration	10 ~ 500Hz, 2G 10min./1 cycle, 60min each along X, Y, Z axes.			
MTRF	211,300 hours min. @ 25°C (MIL-HDBK-217F)			
PHYSICAL SPECIFICATIONS	1 211,000 Hours Hills W 20 O (MILE HOUR 2111)			
Weight	600 grams			
Dimensions	179(L) x 99(W) x 45(H) mm			
	3 years			
Warranty	i o yours			
Warranty SAFETY & FMC				
SAFETÝ & EMC	LII 60950.1 THV EN60950.1 approved			
SAFETÝ & EMC Safety Standards	UL60950-1, TUV EN60950-1 approved			
SAFETÝ & EMC	UL60950-1, TUV EN60950-1 approved Compliance to EN55022 (CISPR22) Class B Compliance to EN61000-3-2,-3			



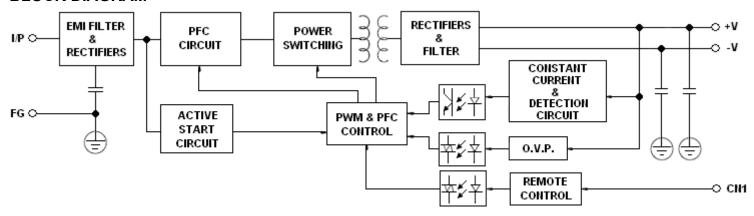
OUTPUT VOLTAGE / CURRENT RATING CHART

Model Number	Input Voltage	Output Voltage	Voltage Adjust. Range	Over Voltage Protection	Output Current	Output Power	Efficiency
PSSP100-3.3	85 ~ 264 VAC (120 ~ 370 VDC)	3.3 VDC	3.14 ~ 3.63V	3.63 ~ 4.46V	20A	66W	70%
PSSP100-5		5 VDC	4.75 ~ 5.5V	5.5 ~ 6.75V	20A	100W	76%
PSSP100-7.5		7.5 VDC	7.13 ~ 8.25V	8.25 ~ 10.13V	13.5A	101.25W	78%
PSSP100-12		12 VDC	11.4 ~ 13.2V	13.2 ~ 16.2V	8.5A	102W	80%
PSSP100-13.5		13.5 VDC	12.8 ~ 14.9V	14.85 ~ 18.23V	7.5A	101.25W	80%
PSSP100-15		15 VDC	14.3 ~ 16.5V	16.5 ~ 20.25V	6.7A	100.5W	82%
PSSP100-24		24 VDC	22.8 ~ 26.4V	26.4 ~ 32.4V	4.2A	100.8W	84%
PSSP100-27		27VDC	25.7 ~ 29.7V	29.7 ~ 36.45V	3.8A	102.6W	83%
PSSP100-48		48 VDC	45.6 ~ 52.8V	52.8 ~ 64.8V	2.1A	100.8W	82%

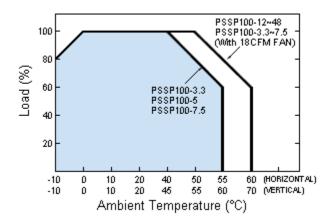
NOTES

- 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 bandwidth by using a 12" twisted pair-wire terminated with a 0.1uF& 47uF parallel capacitor.
- 3. Tolerances include 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.

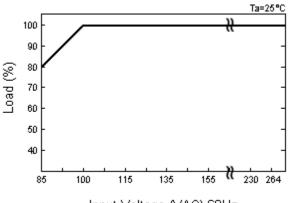
BLOCK DIAGRAM



DERATING CURVE



OUTPUT DERATING VS INPUT VOLTAGE

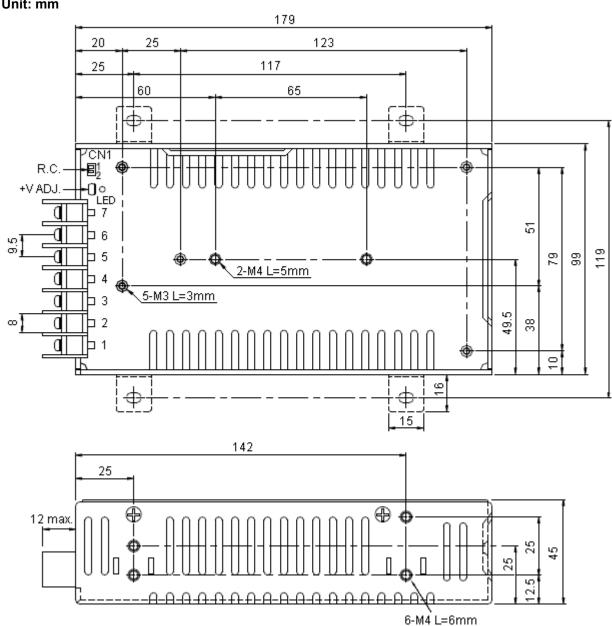


Input Voltage (VAC) 60Hz



MECHANICAL DRAWING





Terminal Pin No. Assignment

Pin No.	Assignment		
1	AC/L		
2	AC/N		
3	FG		
4,5	DC OUTPUT (-V)		
6,7	DC OUTPUT (+V)		

Remote ON/OFF (CN1): JST S2B-XH or equivalent (optional)

Pin No.	Assignment	Mating Housing	Terminal
1	RC+	JST XHP	JST SXH-001T-P0.6
2	RC-	or equivalent	or equivalent