

Datasheet

ENGLISH

125W Single Output with PFC Function

PPS-125 series



■ Features :

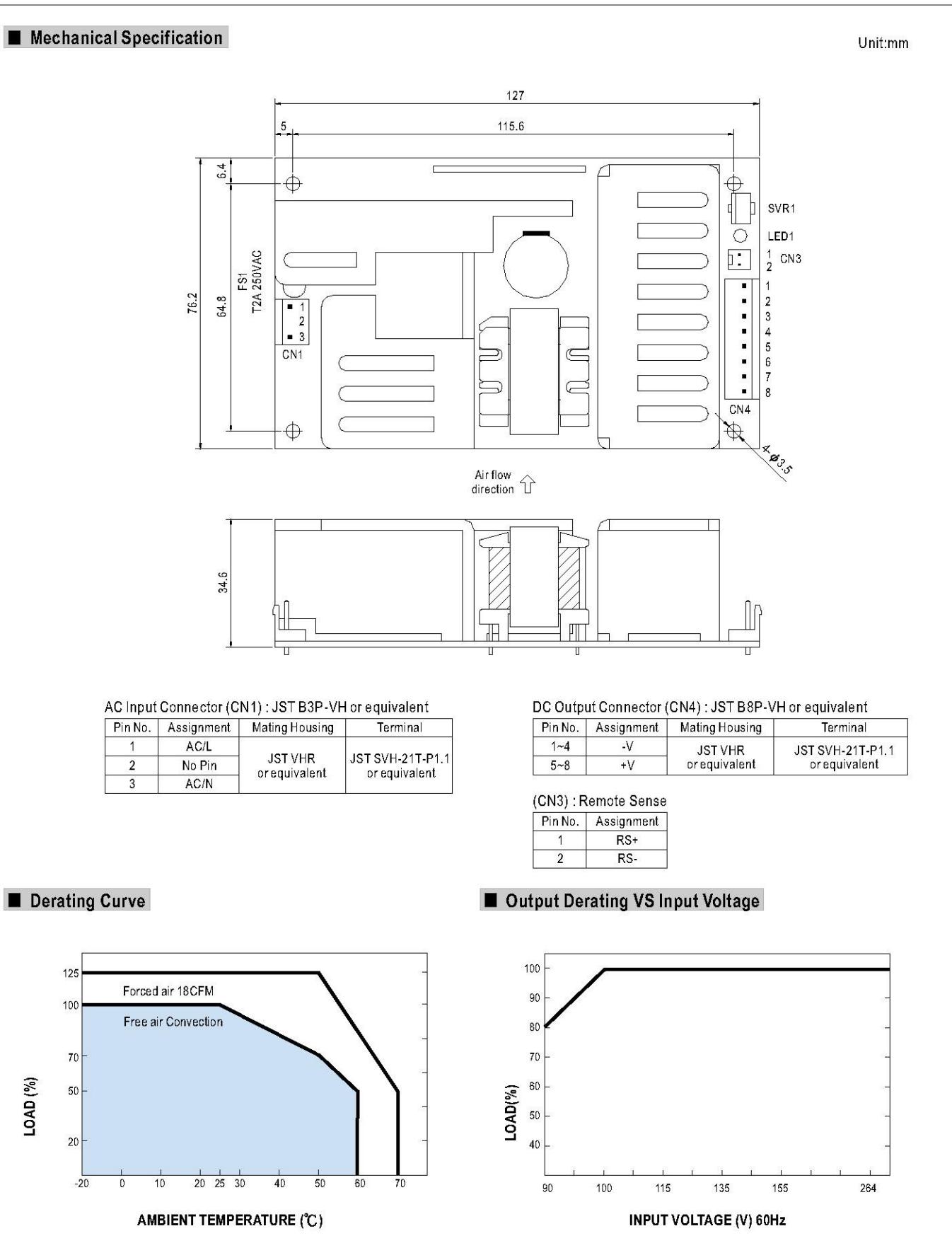
- Universal AC input / Full range
- Built-in active PFC function
- Protections: Short circuit/Over load/Over voltage
- PWM control and regulated
- High power density 6.117W/inch³
- Built-in remote sense function
- LED indicator for power on
- 100% full load burn-in test
- 125W with 18CFM FAN
- 5"x3" compact size
- 3 years warranty



SPECIFICATION

MODEL		655-8454	655-8482	655-8448	655-8460	655-8476	655-8498	655-8448
OUTPUT	DC VOLTAGE	3.3V	5V	12V	13.5V	15V	24V	27V
	RATED CURRENT	20A	20A	8.5A	7.5A	6.7A	4.2A	3.8A
	CURRENT RANGE (convection)	0 ~ 20A	0 ~ 20A	0 ~ 8.5A	0 ~ 7.5A	0 ~ 6.7A	0 ~ 4.2A	0 ~ 3.8A
	CURRENT RANGE (18CFM FAN)	0 ~ 25A	0 ~ 25A	0 ~ 10.5A	0 ~ 9.3A	0 ~ 8.4A	0 ~ 5.2A	0 ~ 4.6A
	RATED POWER (convection)	66W	100W	102W	101.25W	100.5W	100.8W	102.6W
	RATED POWER (18CFM FAN)	82.5W	125W	126W	125.55W	126W	124.8W	124.8W
	RIPPLE & NOISE (max.) Note.2	100mVp-p	100mVp-p	100mVp-p	100mVp-p	100mVp-p	150mVp-p	150mVp-p
	VOLTAGE ADJ. RANGE	3.13 ~ 3.46V	4.75 ~ 5.25V	11.40 ~ 12.60V	12.82 ~ 14.17V	14.25 ~ 15.75V	22.80 ~ 25.20V	25.65 ~ 28.35V
	VOLTAGE TOLERANCE Note.3	±2.0%	±2.0%	±2.0%	±2.0%	±2.0%	±1.0%	±1.0%
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
INPUT	LOAD REGULATION	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
	SETUP, RISE TIME	1000ms, 30ms/230VAC	2000ms, 30ms/115VAC at full load					
	HOLD TIME (Typ.)	24ms/230VAC	24ms/115VAC at full load					
	VOLTAGE RANGE	90 ~ 264VAC	127 ~ 370VDC					
	FREQUENCY RANGE	47~63Hz						
	POWER FACTOR (Typ.)	PF>0.93/230VAC	PF>0.98/115VAC at full load					
	EFFICIENCY (Typ.)	70%	79%	80%	80%	80%	83%	83%
	AC CURRENT (Typ.)	115VAC 1.2A	1.7A					
		230VAC 0.6A	0.75A					
	INRUSH CURRENT (Typ.)	COLD START 24A/230VAC						
PROTECTION	LEAKAGE CURRENT	<2mA / 240VAC						
	OVER LOAD	130 ~ 160% rated output power Protection type : Fold back current limiting, recovers automatically after fault condition is removed						
	OVER VOLTAGE	3.63 ~ 4.45V	5.5 ~ 6.75V	13.8 ~ 16.2V	15.5 ~ 20.25V	17.25 ~ 20.25V	27.6 ~ 32.4V	31.05 ~ 36.45V
ENVIRONMENT	PROTECTION	57.6 ~ 67.2V Protection type : Hiccup mode, recovers automatically after fault condition is removed						
	WORKING TEMP.	-20 ~ +70°C (Refer to output load derating curve)						
	WORKING HUMIDITY	20 ~ 90% RH non-condensing						
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH						
	TEMP. COEFFICIENT	±0.05%/°C (0 ~ 50°C)						
SAFETY & EMC (Note 4)	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes						
	SAFETY STANDARDS	UL60950-1, TUV EN60950-1 Approved						
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC						
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC						
OTHERS	EMI CONDUCTION & 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						
NOTE	MTBF	111.7Khrs min. MIL-HDBK-217F (25°C)						
	DIMENSION	127*76.2*34.6mm (L*W*H)						
	PACKING	0.37Kg; 36pcs/14.3Kg/0.91CUFT						
1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance : includes set up tolerance, line regulation and load regulation. 4. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.								

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