

Datasheet

ENGLISH

350W Single Output with PFC Function

USP-350 series



■ Features :

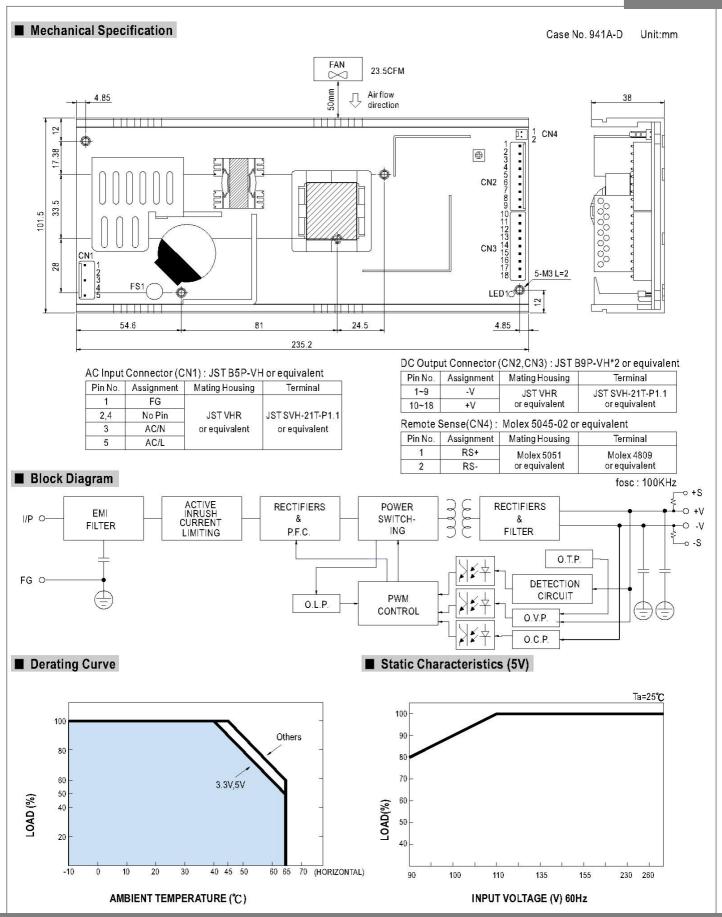
- Universal AC input / Full range
- Built in active PFC circuit compliance to EN61000-3-2
- Protections:Short circuit/Over load/Over voltage/Over temperature
- Free air convection for 300W and 350W with 23.5CFM forced air
- High power density 6.3w/in³
- ZVS technology to reduce power dissipation
- · Active AC surge current limiting
- U-bracket low profile:38mm
- 3 years warranty

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MODEL			424-598	424-572		424-582	424-627
ОИТРИТ	DC VOLTAGE	3.3V	5V	12V	15V	24V	48V
	RATED CURRENT	70A	70A	29.2A	23.4A	14.6A	7.3A
	CURRENT RANGE (convection)	0 ~ 50A	0 ~ 50A	0 ~ 25A	0 ~ 20A	0 ~ 12.5A	0 ~ 6.25A
	CURRENT RANGE (23.5CFM FAN)	0 ~ 70A	0 ~ 70A	0~29.2A	0 ~ 23.4A	0 ~ 14.6A	0 ~ 7.3A
	RATED POWER (convection)	165W	250W	300W	300W	300W	300W
	RATED POWER (23.5CFM FAN)	231W	350W	350.4W	351W	350.4W	350.4W
	RIPPLE & NOISE (max.) Note.2		80mVp-p	100mVp-p	100mVp-p	150mVp-p	150mVp-p
	VOLTAGE ADJ. RANGE	2.97 ~ 3.6V	4.5 ~ 5.5V	10.8 ~ 13.2V	13.5 ~ 16.5V	21.6 ~ 26.4V	43.2 ~ 52.8V
	VOLTAGE TOLERANCE Note.3	CARRIED BARROON	±2.0%	±2.0%	±2.0%	±2.0%	±2.0%
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	LOAD REGULATION	±2.0%	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%
	SETUP, RISE TIME	2000ms, 100ms/2:		100ms/115VAC at full I			
	HOLD TIME (Typ.)	12ms/230VAC 16ms/230VAC 16ms/115VAC at full load					
INPUT		90 ~ 264VAC 127 ~ 370VDC					
	FREQUENCY RANGE	47 ~ 63Hz					
	POWER FACTOR (Typ.)	0.94/230VAC					
	EFFICIENCY (Typ.)	78%	84%	88%	88%	88%	89%
			A/230VAC	0070	00 /0	00 70	03/0
	AC CURRENT (Typ.)	2A/115VAC					
	INRUSH CURRENT (Typ.) LEAKAGE CURRENT						
	LEAKAGE CURRENT	<2mA / 240VAC					
PROTECTION	OVER LOAD	105 ~ 120% rated output power 105 ~ 130% rated output power					
							50 04 01
	OVER VOLTAGE	3.7 ~ 4.6V	5.7 ~ 7V	13.5 ~ 16.3V	17 ~ 21V	26.7 ~ 32.4V	53 ~ 64.8V
		Protection type: Hiccup mode, recovers automatically after fault condition is removed					
	OVER TEMPERATURE	80°C(3.3V,5V,12V,15V),2V,48V) (TSW1 : Detect on heatsink of power transistor); 80°C±5°C(3.3V,5V,12V,15V), 75°C±5°C(24V,48V) (TSW2 : Detect on heatsink of power-po					
	The grade and the same of the	Protection type: Shut down o/p voltage with auto-recovery					
ENVIRONMENT	WORKING TEMP.	-10 ~ +65°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	±0.03%/°C (0~45°C)					
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes					
3	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					
SAFETY &	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC					
EMC (Note 4)	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, Light industry level, criteria A					
OTHERS	MTBF	106.3K hrs min. MIL-HDBK-217F (25℃)					
	DIMENSION	235.2*101.5*38mm (L*W*H)					
	PACKING	1.1Kg; 16pcs/18K	g/0.72CUFT				
NOTE	Ripple & noise are measure Tolerance : includes set up The power supply is consid EMC directives.	NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. udes set up tolerance, line regulation and load regulation. by is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets e needed under low input voltages. Please check the derating curve for more details.					



ENGLISH



RS, Professionally Approved Products, gives you professional quality parts across all products categories. Our range has been testified by engineers as giving comparable quality to that of the leading brands without paying a premium price.