

Features

- For LED Indoor Office & Retail Application
- Output Current Selectable by DIP Switches
- Suitable to Dry, Damp Location
- 1-10V Dimming Function
- High Reliability & Long Life 50,000hrs
- Constant Current Design/ Low Inrush Current/ Low Ripple Current
- Low Energy Consumption at Standby
- Protections: Short Circuit/ Over Voltage/ Over Temperature
- Safety: Meet IEC61347-2-13, UL8750, EMI EN55015



SPECIFICATION

Model Name		FSP050-1SZN1CP-W					
Output	Rated Power	25W	35W	50W	50W	50W	50W
	Output Voltage	36-71V	36-71V	36-71V	36-58V	36-55V	36-48V
	Rated Current	350mA	500mA	700mA	850mA	900mA	1050mA
	Output Current Accuracy	±5%	±5%	±5%	±5%	±5%	±5%
	Output Ripple Current (typ.) ^[2]	±5%	±5%	±5%	±5%	±5%	±5%
	Line Regulation	±3%	±3%	±3%	±5%	±5%	±5%
Turn On Delay Time, Rise time		≤600ms max ; ≤80ms max					
Input	Input Voltage/ Frequency ^[3]	180~264Vac/ 47~63Hz					
	Power Factor (typ.)	PF≥0.95/230Vac					
	Efficiency (max.)	85%	85%	88%	88%	88%	88%
	Total Harmonic Distortion	THD <20% (50W max.)					
	AC Current (typ.)	0.2A max.	0.25A max.	0.32A max.			
	Inrush Current (typ.)	≤ 6A at 230Vac, 25° C cold start					
Leakage Current		≤0.25mA /230Vac					
Environment	Operating Temperature	-40°C ~ +50 °C			-40°C ~ +40 °C		
	Operating Humidity	20~90% RH non-condensing					
	Storage Temperature, Humidity	-40°C~+85°C, 10%~95%RH					
	Vibration	0.02g ² /Hz at 5 Hz sloping to 0.04g ² /Hz at 20 Hz, and maintaining 0.04g ² /Hz from 20 Hz to 500 Hz at a constant acceleration of 4.43G for 30 minutes per axis for all three axes					
Protection	Over Voltage Protection	<85V					
	Short Circuit Protection	Protection type: Recovers automatically after fault condition is removed					
	Over Temperature Protection	Recovers automatically after fault condition is removed					
Safety & EMC	Over Temperature Protection	Recovers automatically after fault condition is removed					
	Safety Standards	EN61347-1, EN61347-2-13					
	EMC Standard	Compliant with EN55015/CISPR22 CLASS B, Compliant with EN61000-3-2 Class C , EN61000-3-3					
	Surge Protection	Differential Mode:1KV					
Withstand Voltage (Hipot)		I/P-O/P 3000Vac					
Others	Isolation Resistance	I/P-CASE ,O/P-CASE: 25M ohm @ 500Vdc/ 25°C					
	Life Time [5]	50,000 hours at Tcase of ≤ 45°C					
	MTBF	200,000 hours, MIL-HDBK-217F(25oC)					
	Dimension (LxWxH)	123 x 80 x 22.5 mm					
	Net Weight / Packing	185g ; 40 pcs / box					

Notes:

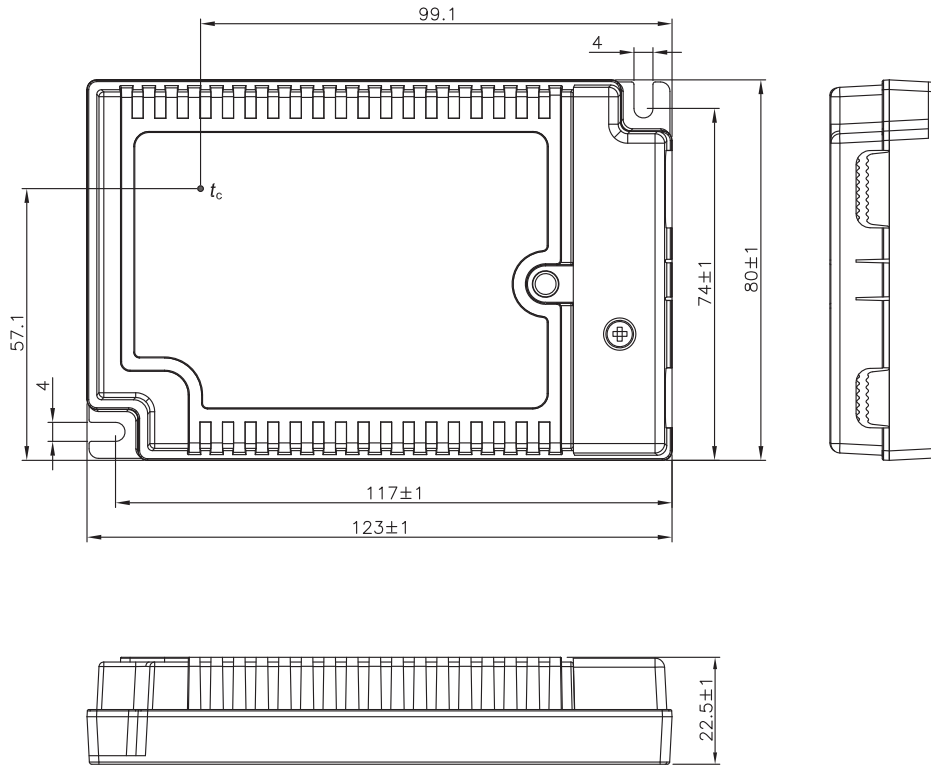
1. All data NOT specially mentioned are measured at 230Vac/ 50Hz input, full load and 25°C of ambient temperature
2. The ripple current must be measured under the condition of AC coupling & 20MHz bandwidth. (Rated input and rated output)
3. Derating may be needed under low input voltages. Please check the static characteristics for more details
4. Measured at rated output voltage.
5. Measured at 230Vac/50Hz input, rated load.
6. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.



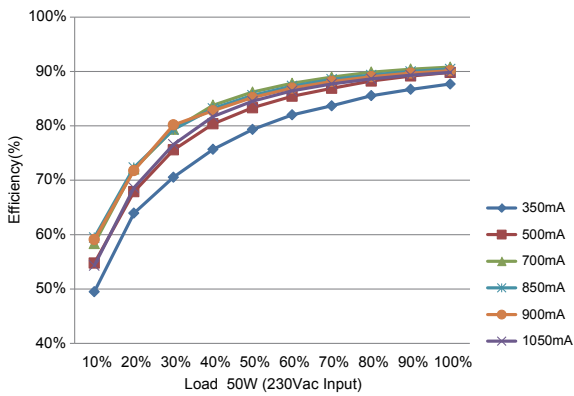
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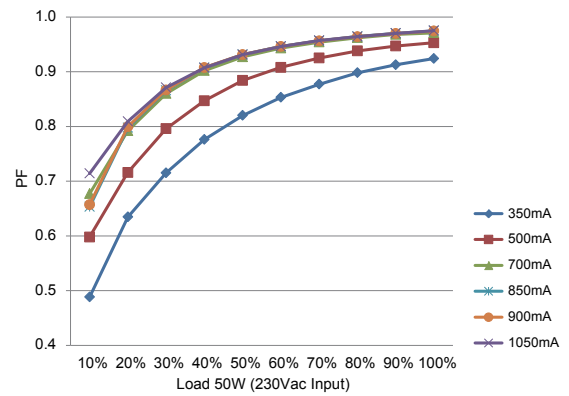
Unit: mm



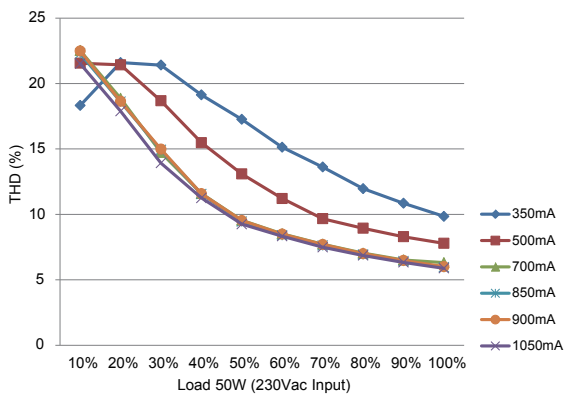
Efficiency



PFC vs Loading



THD vs Loading



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