

100W Single Output Switching Power Supply



- Features :**
- Constant voltage design
 - Universal AC input / Full range
 - Fully encapsulated with IP67 level (Note.8)
 - Withstand 300VAC surge input for 5 seconds
 - Protections: Short circuit / Over current / Over voltage
 - Fully isolated plastic case
 - Cooling by free air convection
 - 100% full load burn-in test
 - Low cost, high reliability
 - Suitable for LED lighting and moving sign applications(Note 7.)
 - 2 years warranty

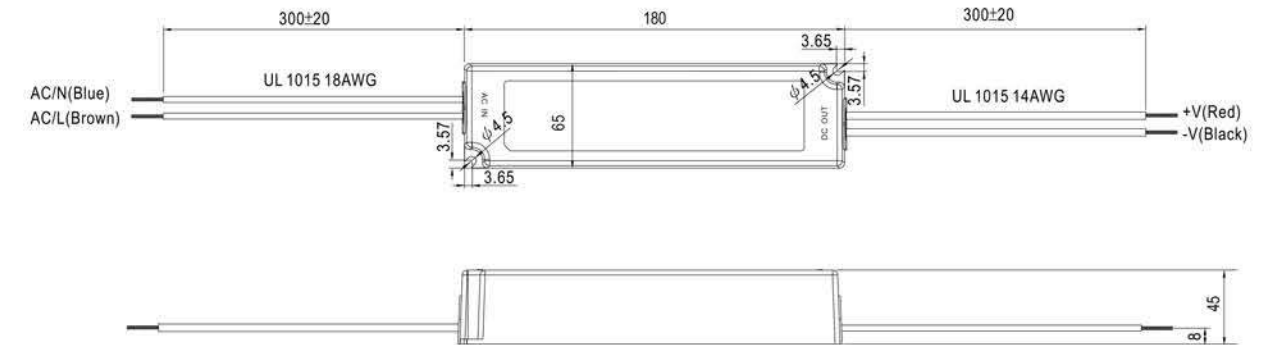


SPECIFICATION

MODEL	SFS-100-5	SFS-100-12	SFS-100-15	SFS-100-24	SFS-100-36	SFS-100-48	
OUTPUT	DC VOLTAGE	5V	12V	15V	24V	36V	48V
	RATED CURRENT	12A	8.5A	6.7A	4.2A	2.8A	2.1A
	CURRENT RANGE	0 ~ 12A	0 ~ 8.5A	0 ~ 6.7A	0 ~ 4.2A	0 ~ 2.8A	0 ~ 2.1A
	RATED POWER	60W	102W	100.5W	100.8W	100.8W	100.8W
	RIPPLE & NOISE (max.) Note.2	80mVp-p	120mVp-p	120mVp-p	150mVp-p	150mVp-p	150mVp-p
	VOLTAGE TOLERANCE Note.3	±8.0%	±5.0%				
	LINE REGULATION	±1.0%					
	LOAD REGULATION	±6.0%	±2.0%				
	SETUP, RISE TIME Note.6	2000ms, 25ms / 230VAC	2000ms, 25ms / 115VAC				
	HOLD UP TIME (Typ.)	50ms/230VAC	14ms/115VAC at full load				
INPUT	VOLTAGE RANGE Note.4	90 ~ 264VAC	127 ~ 370VDC				
	FREQUENCY RANGE	47 ~ 63Hz					
	EFFICIENCY (Typ.)	80%	85%	87%	88%	88%	89%
	AC CURRENT	2.2A/115VAC	1.2A/230VAC				
	INRUSH CURRENT(Typ.)	COLD START 75A(twidth=700µs measured at 50% Ipeak) at 230VAC					
LEAKAGE CURRENT	0.25mA / 240VAC						
PROTECTION	OVER CURRENT	110 ~ 150% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed					
	OVER VOLTAGE	5.75 ~ 6.75V	13.8 ~ 16.2V	17.25 ~ 20.25V	27.6 ~ 32.4V	41.4 ~ 48.6V	55.2 ~ 64.8V
ENVIRONMENT	WORKING TEMP.	-25 ~ +70°C (Refer to "Derating Curve")					
	WORKING HUMIDITY	20 ~ 90% RH non-condensing					
	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH					
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)					
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes					
SAFETY & EMC	SAFETY STANDARDS	IP67 approved; Design refer to TUV EN60950-1					
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC					
	ISOLATION RESISTANCE	I/P-O/P:>100M Ohms / 500VDC / 25°C/ 70% RH					
OTHERS	EMC EMISSION	Compliance to EN55022 (CISPR22) Class B, EN61000-3-2 Class A (< 80% load), EN61000-3-3					
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; EN55024, light industry level, criteria A					
NOTE	MTBF	703Khrs min. MIL-HDBK-217F (25°C)					
	DIMENSION	190*53*40mm (L*W*H)					
PACKING	0.81Kg; 45pcs/25.5Kg/0.56CUFT						

Case No. 999A Unit:mm

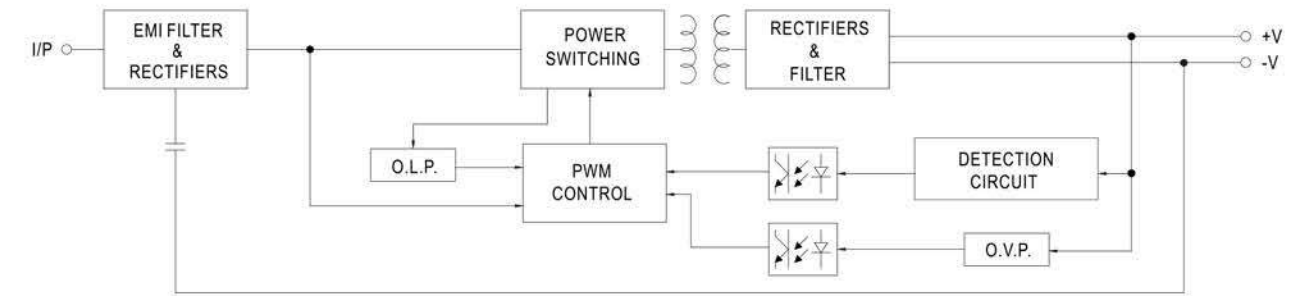
Mechanical Specification



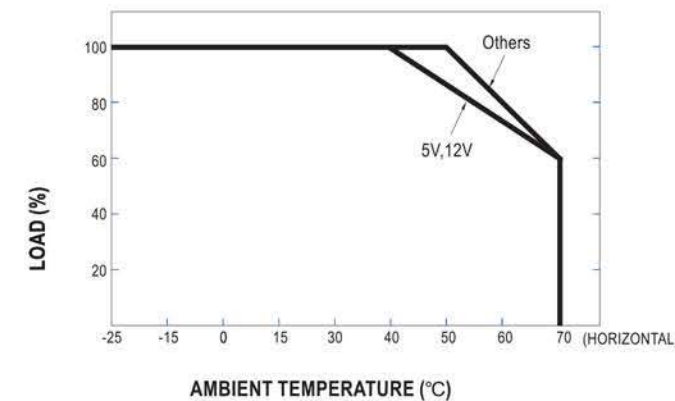
Recommend Mounting Direction



Block Diagram



Derating Curve



Static Characteristics

