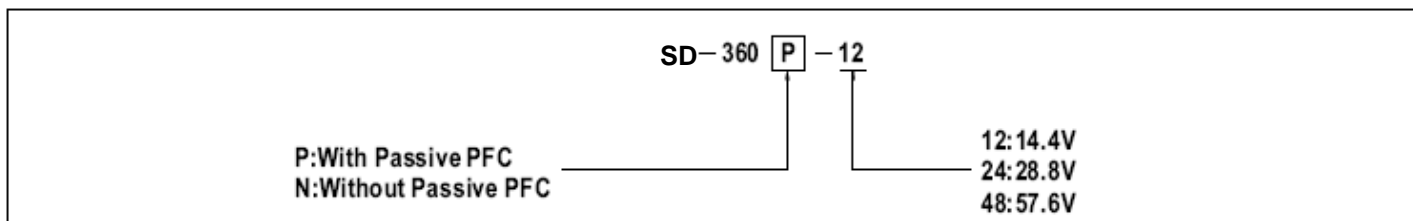


Features:

- 3 Stage charging
- AC 115/230VAC selected by switch
- Built-in passive PFC function compliance to EN61000-3-2 Class A (option)
- Protection: Short circuit / Reverse polarity / Over voltage / Over temperature
- Cooling by free air convection, 2 color LED loading indicator
- Charger for lead-acid batteries, Low cost, High reliability
- 3 years warranty

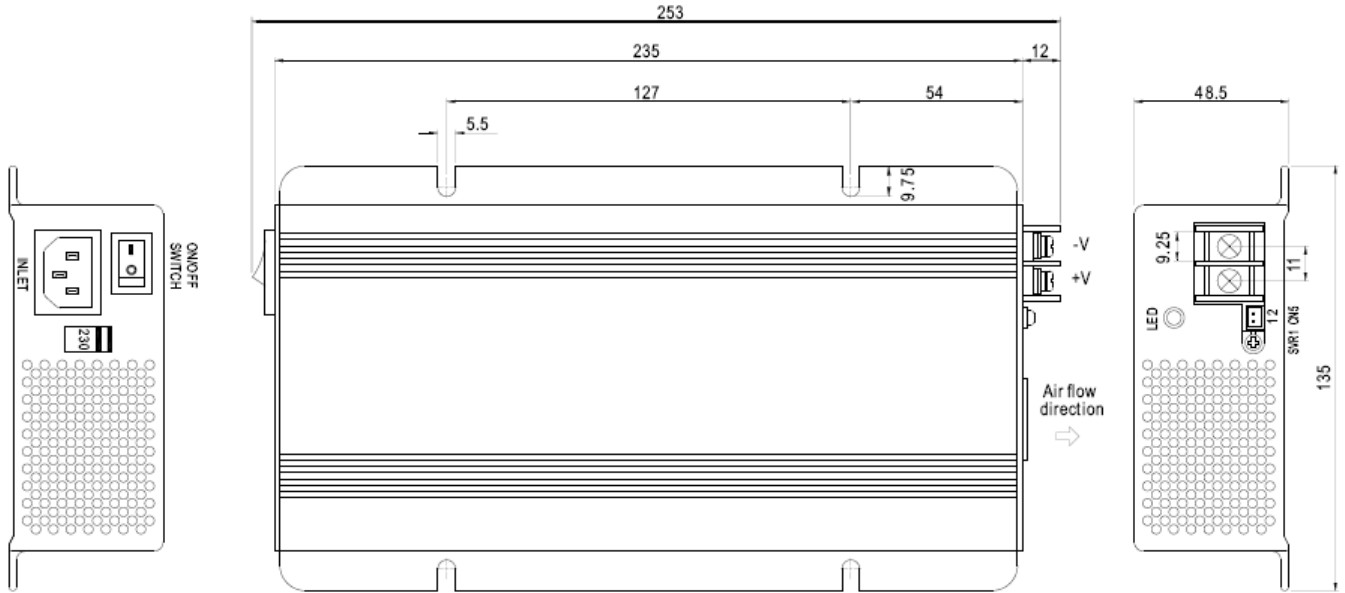


SPECIFICATION

MODEL	SD 360 □ -12	SD 360 □ -24	SD 360 □ -48	
OUTPUT	BOOST CHARGE VOLTAGE	14.4V	28.8V	57.6V
	FLOAT CHARGE VOLTAGE	13.6V	27.2V	54.4V
	VOLTAGE ADJUSTABLE RANGE	13 ~ 14.7V	26 ~ 28.8V	52 ~ 58.6V
	RECOMMENDED BATTERY CAPACITY(AMP HOURS) Note 5	80 ~ 240Ah	40 ~ 125Ah	20 ~ 65Ah
	BATTERY TYPE	Open & Sealed Lead Acid		
	OUTPUT CURRENT (Typ.) Note 6	24.3A	12.5A	6.25A
INPUT	VOLTAGE RANGE	90 ~ 132VAC / 180 ~ 264VAC selected by switch 127 ~ 187VDC / 254 ~ 370VDC		
	FREQUENCY RANGE	47 ~ 63Hz		
	EFFICIENCY (Typ.)	85%	86%	87%
	POWER FACTOR (Typ.)	>0.65 (with P type) at 230VAC		
	AC CURRENT (Typ.)	7A/115VAC 3.5A/230VAC		
	INRUSH CURRENT (Typ.)	COLD START 60A		
LEAKAGE CURRENT	<3.5mA / 240VAC			
PROTECTION	SHORT CIRCUIT	O/P Built in fuse (FS 100) to protect short circuit condition, shut down o/p voltage and can not re-power on		
	REVERSE POLARITY	By internal fuse		
	OVER VOLTAGE	16 ~ 18V	31 ~ 35V	59 ~ 64V
	OVER TEMPERATURE	Protection type : Automatically derate charge current until zero		
FUNCTION	REMOTE CONTROL (CN5)	Open: Normal work Short: Stop Charging		
ENVIRONMENT	WORKING TEMP.	-20 ~ +60°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 ~ 45°C)		
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes		
SAFETY & EMC (Note 4)	SAFETY STANDARDS	IEC60335-2-29 CB approved by TUV(except for 48V), UL60950-1 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 / 25°C / 70% RH		
	EMI CONDUCTION & RADIATION	Compliance to EN55022 (CISPR22) Class B		
	HARMONIC CURRENT	Compliance to EN61000-3-2, -3 (only P type)		
EMS IMMUNITY	Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11; ENV50204, EN55024, light industry level, criteria A			
OTHERS	MTBF	115.8Khrs min. MIL-HDBK-217F (25°C)		
	DIMENSION	253*135*48.5mm(L*W*H)		
	PACKING	1.5Kg; 6pcs/10Kg/0.95CUFT		
Note	<p>1. All parameters NOT specially mentions are measured at 230VAC input, rated load and 25°C of ambient temperature.</p> <p>2. Ripple & noise are measured at 20MHz of bandwidth by using a 12Inch twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.</p> <p>3. Tolerance : includes set up tolerance, line regulation and load regulation.</p> <p>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.</p> <p>5. This is DYNAMIC SOLAR SOLUTIONS suggested range. Please consult your battery manufacturer for their suggestions about maximum charging current limitation.</p> <p>6. Test condition is at 25°C, charging current will change under different temperature.</p>			

Mechanical Specification

Case No.801B Unit:mm

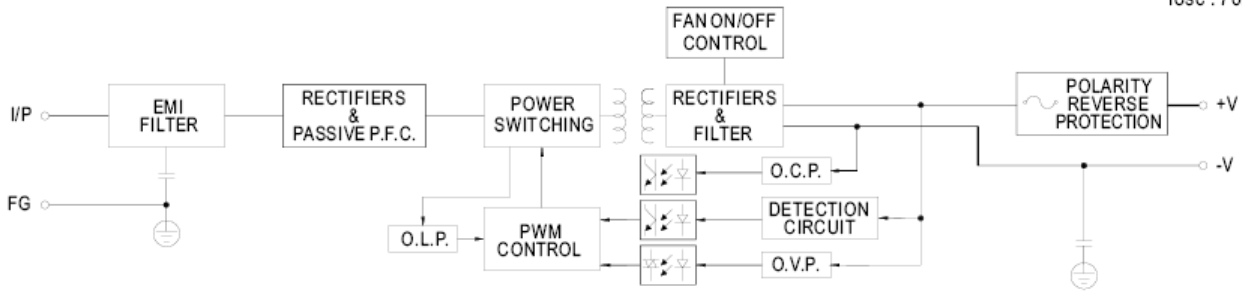


Remote Control(CN5) : JST B2B-XH or equivalent

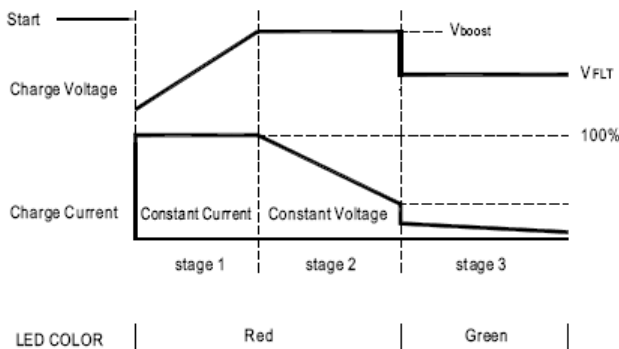
Assignment	Mating Housing	Terminal
PIN1,2 Open: Normal work	JST XHP or equivalent	JST SXH-001T-P0.6 or equivalent
PIN1,2 Short: Stop Charging		

Block Diagram

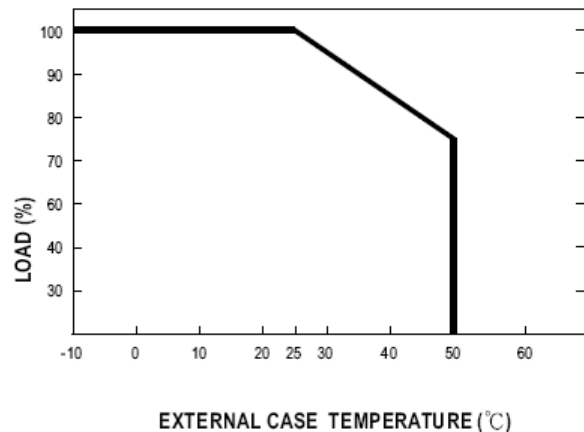
fosc : 70KHz



Charging Curve



Output Load VS Temperature



State	SD-300-12	SD-300-24	SD-300-48
Vboost	14.4V	28.8V	57.6V
VFLT	13.6V	27.2V	54.4V