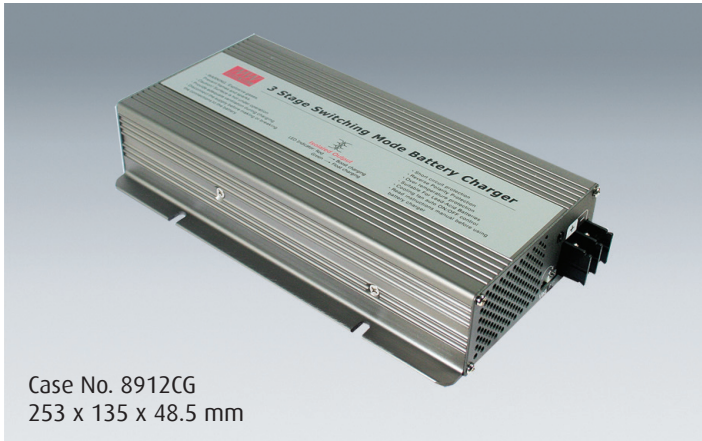


PB-300P Series

300W Single Output Battery Charger



Case No. 8912CG
253 x 135 x 48.5 mm

Features

- Charger for lead-acid batteries (flooded, Gel and AGM) and li-ion batteries (lithium iron and lithium manganese)
- 2 stage charging characteristic
- 3 stage charging
- AC 115/230VAC selected by switch
- Built-in passive PFC function compliance to EN61000-3-2 Class A (option)
- Protections: Short circuit / Reverse Polarity/ Overload / Over temperature
- Cooling by free air convection
- 2 colour LED loading indicator
- Low cost, high reliability
- 3 years warranty



Specification

INPUT	Voltage	90V ~ 132VAC / 180 ~ 264VAC selected by switch 127~187VDC / 254~370VDC		
	Frequency	47 ~ 63 Hz		
	Power Factor (Typ.)	PF>0.65 (with P type) at 230VAC		
	AC Current	6A/115VAC 3A/230VAC		
	Inrush Current (Typ.)	Cold Start 60A		
	Leakage Current (Max.)	<3.5mA/240VAC		
		Efficiency	85%	86%
OUTPUT	MODEL No.	PB-300P-12	PB-300P-24	PB-300P-48
	Boost Charge Voltage	14.4V	28.8V	57.6V
	Float Charge Voltage	13.6V	27.2V	54.4
	Voltage Adjustable Range	13 ~ 14.7V	26 ~ 28.8V	52 ~ 58.6V
	Recommended Battery Capacity (AMP Hours)	60~200Ah	30~100Ah	15~50Ah
	Battery Type	Open & Sealed Lead Acid		
	Max. Output Current (Typ.)	20.85A	10.5A	5.3A
	Continuous Output Current	12.5A	6.25A	3.2A
PROTECTION	Short Circuit	O/P built in fuse (FS100) 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 (CNS)	Open: Normal Work Short: Stop Charging		
	Working Temperature	-10% ~ 50% (Refer to derating curve)		
ENVIRONMENT	Working Humidity	20 ~ 90°C 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, period for 60min. each along X, Y, Z axes		
SAFETY & EMC	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:2KVAC O/P-FG:0.5KVAC		
	Isolation Resistance	I/P-OP, I/P-FG, O/P-FG:100M0hms / 500VDC / 25°C / 70% RH		
	EMC Emission	Compliance to EN55022 (CISPR22) class B, EN61000-3-2, 3		
	EMC Immunity	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, light industry level, criteria A		
OTHERS	M.T.B.F.	115.8Khrs min. MIL-HDBK-217F (25°C)		
	Packaging	1.45Kg; 6pcs/9.7Kg/0.95CUFT		

1. Modification for charger specification may be required for different battery specification. Please contact battery vendor.
2. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
3. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair terminated with a 0.1uf & 47uf parallel capacitor.
4. Tolerance: Includes set up tolerance, line regulation and load regulation.
5. The power supply is considered as an independent unit, but the final equipment still need to re-confirm that the whole system complies with the EMC directives.
6. Please consult your battery manufacturer for their suggestions about maximum charging current limitation.
7. Test condition is at 25°C, charging current will change under different temperature.
8. Maximum charging current will be in the range of 90 ~ 110% rated output current.

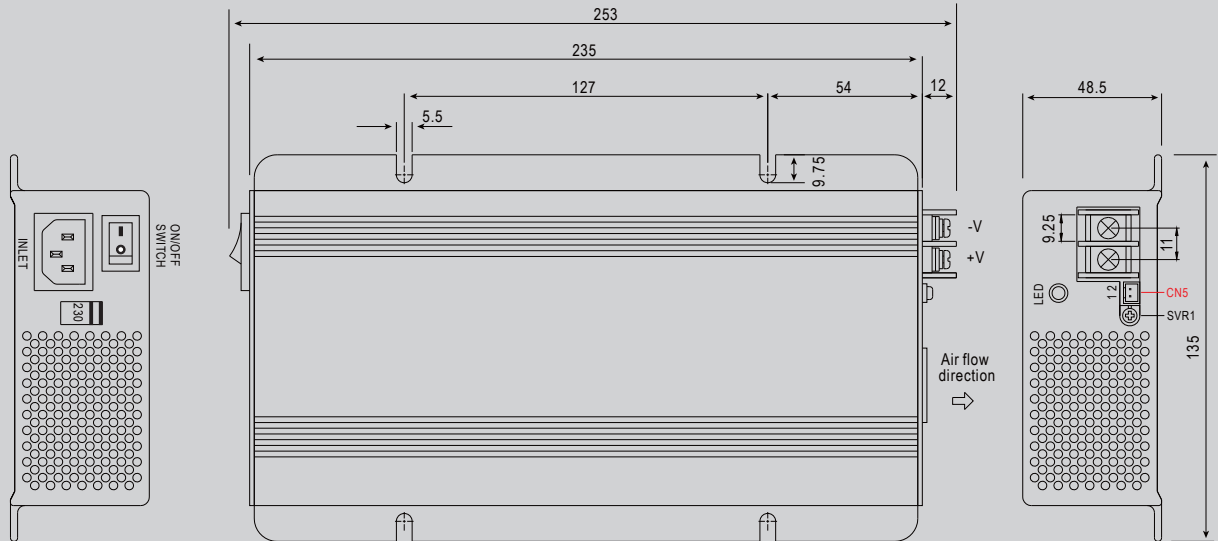
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300W Single Output Battery Charger



Mechanical Specification

Case No.801B Unit:mm

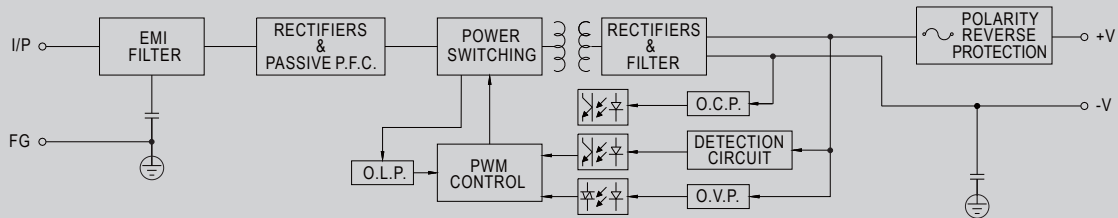


Remote Control(CN5) : JST B2B-XH or equivalent

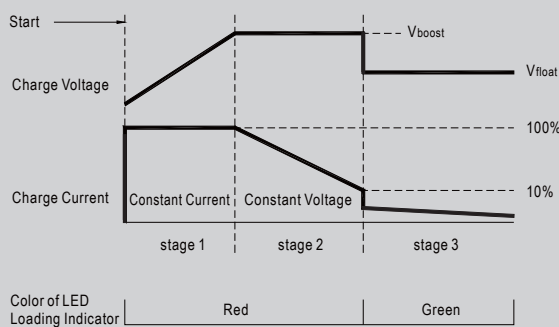
Assignment	Mating Housing	Terminal
PIN1,2 Open: Normal work	JST XHP or equivalent	JST SXH-001T-P0.6 or equivalent
PIN1,2 Short: Stop Charging		

Block Diagram

fosc : 70KHz



Charging Curve



Derating Curve

