



■ Features :

- Charger for lead-acid batteries (flooded, Gel and AGM) and Li-ion batteries (lithium iron and lithium manganese) (Note.1)
- 3 stage charging
- AC 115/230VAC selected by switch
- Built-in passive PFC function compliance to BS EN/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
- Low cost, High reliability
- 3 years warranty

■ GTIN CODE

MW Search: <https://www.meanwell.com/serviceGTIN.aspx>



PB - 300 **P** - 12

P: With Passive PFC
N: Without Passive PFC

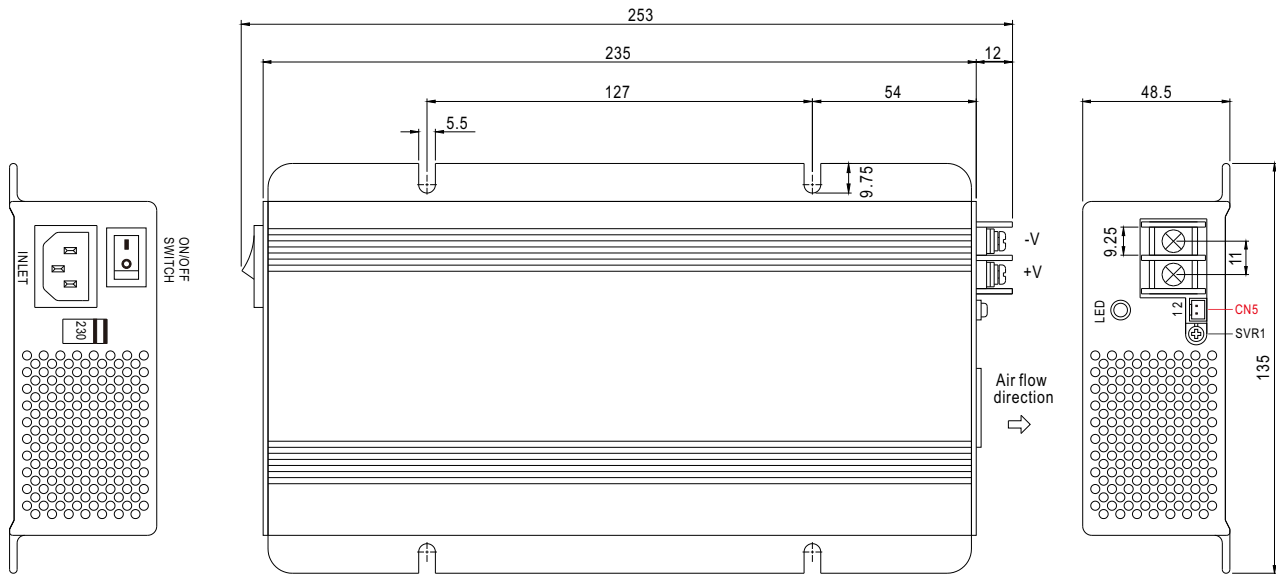
12: 14.4V
24: 28.8V
48: 57.6V

SPECIFICATION

MODEL		PB-300□-12	PB-300□-24	PB-300□-48
OUTPUT	BOOST CHARGE VOLTAGE V _{boost}	14.4V	28.8V	57.6V
	FLOAT CHARGE VOLTAGE V _{float}	13.6V	27.2V	54.4V
	VOLTAGE ADJUSTABLE RANGE	13 ~ 14.7V	26 ~ 28.8V	52 ~ 58.6V
	RECOMMENDED BATTERY CAPACITY(AMP HOURS) Note 6	60 ~ 200Ah	30 ~ 100Ah	15 ~ 50Ah
	BATTERY TYPE	Open & Sealed Lead Acid		
	MAX. OUTPUT CURRENT(Typ.) Note 8	20.85A	10.5A	5.3A
	CONTINUOUS OUTPUT CURRENT (Typ.) Note 7	12.5A	6.25A	3.2A
INPUT	VOLTAGE RANGE	90 ~ 132VAC / 180 ~ 264VAC selected by switch 127 ~ 187VDC / 254 ~ 370VDC		
	FREQUENCY RANGE	47 ~ 63Hz		
	POWER FACTOR (Typ.)	>0.65 (with P type) at 230VAC		
	EFFICIENCY (Typ.)	85%	86%	88%
	AC CURRENT (Typ.)	6A/115VAC 3A/230VAC		
	INRUSH CURRENT (Typ.)	COLD START 60A		
	LEAKAGE CURRENT	<3.5mA / 240VAC		
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
		Protection type : Shut down o/p voltage, re-power on to recover		
	OVER TEMPERATURE	Protection type : Automatically derate charge current until zero		
FUNCTION	REMOTE CONTROL (CN5)	Open: Normal work Short: Stop Charging		
ENVIRONMENT	WORKING TEMP.	-10 ~ +50℃ (Refer to "Derating Curve")		
	WORKING HUMIDITY	20 ~ 90% RH non-condensing		
	STORAGE TEMP., HUMIDITY	-40 ~ +85℃ , 10 ~ 95% RH non-condensing		
	TEMP. COEFFICIENT	±0.05%/℃ (0 ~ 45℃)		
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes		
SAFETY & EMC (Note 5)	SAFETY STANDARDS	IEC60335-2-29 CB approved by TUV(except for 48V), UL62368-1, CSA C22.2 No. 62368-1, EAC TP TC 004 approved, Design refer to BS EN/EN62368-1 for P type only		
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC		
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25℃ / 70% RH		
	EMC EMISSION	Compliance to BS EN/EN55032 (CISPR32) Class B, BS EN/EN61000-3-2,-3 (only P type), EAC TP TC 020		
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN55024, light industry level, EAC TP TC 020		
OTHERS	MTBF	2826.8K hrs min. Telcordia SR-332 (Bellcore) ; 287.9K hrs min. MIL-HDBK-217F (25℃)		
	DIMENSION	253*135*48.5mm(L*W*H)		
	PACKING	1.45Kg; 6pcs/9.7Kg/1.03CUFT		
NOTE	1. Modification for charger specification may be required for different battery specification. Please contact battery vendor and MEAN WELL for details.			

Mechanical Specification

Case No.801B Unit:mm

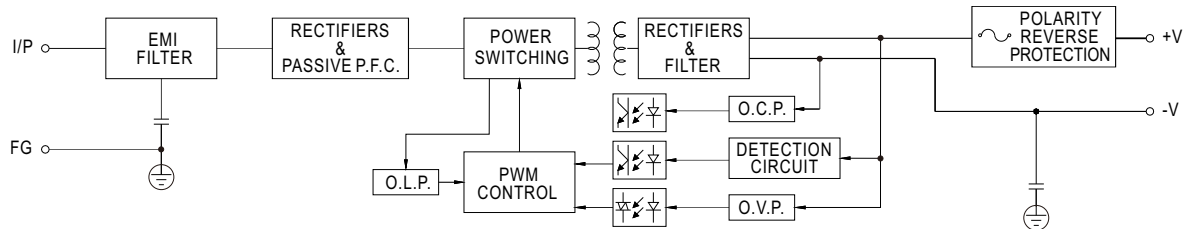


Remote Control(CN5) : JST B2B-XH or equivalent

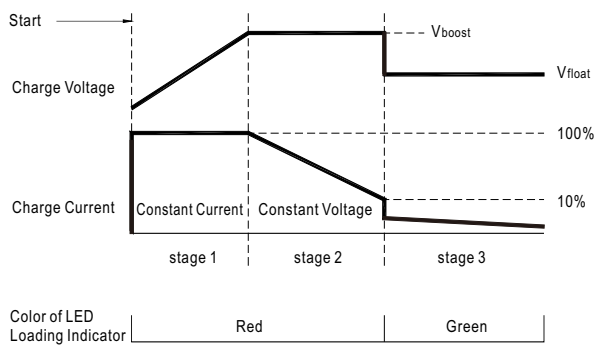
Assignment	Mating Housing	Terminal
PIN1,2 Open: Normal work	JST XHP or equivalent	JST SXH-001T-P0.6 or equivalent
PIN1,2 Short: Stop Charging		

Block Diagram

fosc : 70KHz

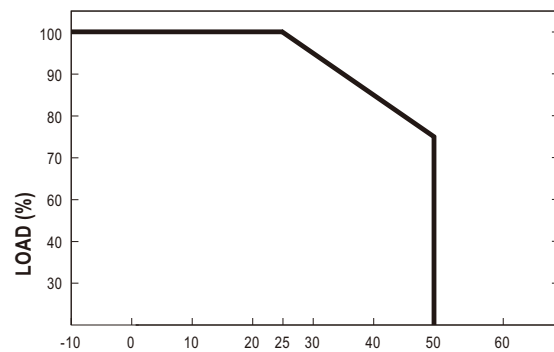


Charging Curve



State	PB-300-12	PB-300-24	PB-300-48
Vboost	14.4V	28.8V	57.6V
Vfloat	13.6V	27.2V	54.4V

Output Load VS Temperature



EXTERNAL CASE TEMPERATURE (°C)