



360W Single Output Battery Charger

PB-360 series



## ■ 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
- 2 color LED loading indicator
- Low cost, High reliability
- FAN on/off control (Depends on charging current)
- 3 years warranty



UL62368-1



TPTC004



IEC60335-1,2-29



(P type only)

PB - 360 P - 12

12:14.4V

24:28.8V

48:57.6V

P:With Passive PFC  
N:Without Passive PFC

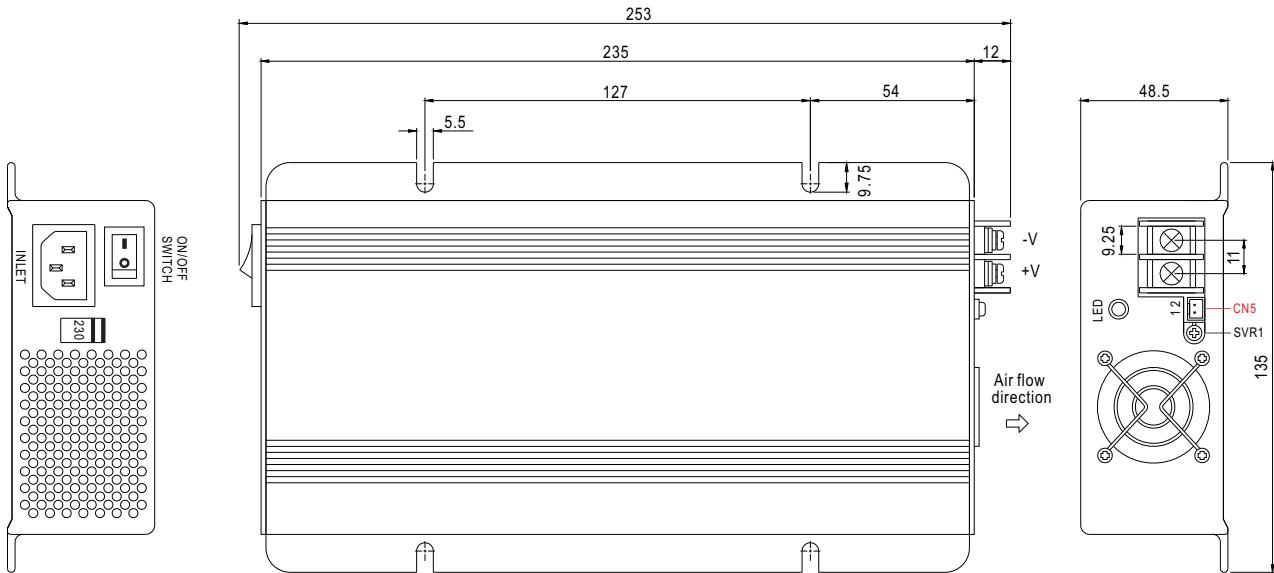
		PB - 360 P - 12	12:14.4V 24:28.8V 48:57.6V
--	--	-----------------	----------------------------------

## SPECIFICATION

MODEL	PB-360□-12	PB-360□-24	PB-360□-48
OUTPUT	BOOST CHARGE VOLTAGE $V_{boost}$	14.4V	28.8V
	FLOAT CHARGE VOLTAGE $V_{float}$	13.6V	27.2V
	VOLTAGE ADJUSTABLE RANGE	13 ~ 14.7V	26 ~ 28.8V
	RECOMMENDED BATTERY CAPACITY(AMP HOURS) Note 6	80 ~ 240Ah	40 ~ 125Ah
	BATTERY TYPE	Open & Sealed Lead Acid	20 ~ 65Ah
	OUTPUT CURRENT (Typ.) Note 7	24.3A	12.5A
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%
	AC CURRENT (Typ.)	7A/115VAC 3.5A/230VAC	
	INRUSH CURRENT (Typ.)	COLD START 60A	
PROTECTION	LEAKAGE CURRENT	<3.5mA / 240VAC	
	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
		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.	-20 ~ +60°C (Refer to "Derating Curve")	
	WORKING HUMIDITY	20 ~ 90% RH non-condensing	
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH non-condensing	
	TEMP. COEFFICIENT	±0.05%/°C (0 ~ 45°C)	
	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
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms	500VDC / 25°C / 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, criteria A, EAC TP TC 020	
OTHERS	MTBF	115.8Khrs min. MIL-HDBK-217F (25°C)	
	DIMENSION	253*135*48.5mm(L*W*H)	
	PACKING	1.5Kg; 6pcs/10Kg/1.03CUFT	
NOTE	1. Modification for charger specification may be required for different battery specification. Please contact battery vendor and MEAN WELL for details. 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-wire 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 a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives. 6. This is Mean Well's suggested range. Please consult your battery manufacturer for their suggestions about maximum charging current limitation. 7. Maximum charging current will be in the range of 90~110% rated output current. 8. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft). ※ Product Liability Disclaimer : For detailed information, please refer to <a href="https://www.meanwell.com/serviceDisclaimer.aspx">https://www.meanwell.com/serviceDisclaimer.aspx</a>		

## ■ Mechanical Specification

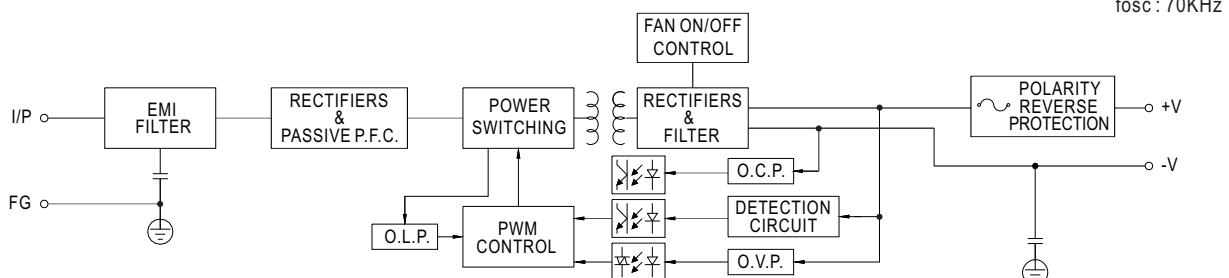
Case No.801A Unit:mm



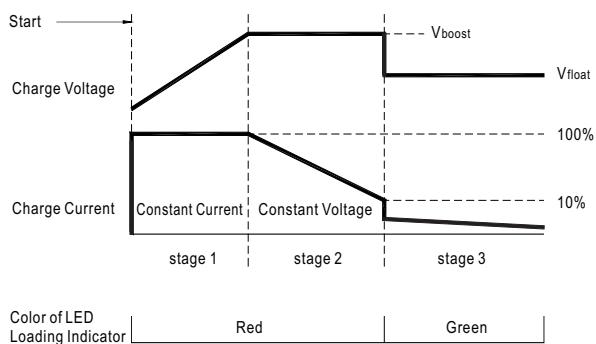
Remote Control(CN5) : JST B2B-XH or equivalent

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



## ■ Charging Curve



State	PB-360-12	PB-360-24	PB-360-48
Constant Current	24.3A	12.5A	6.25A
Vboost	14.4V	28.8V	57.6V
Vfloat	13.6V	27.2V	54.4V

## ■ Output Load VS Temperature

