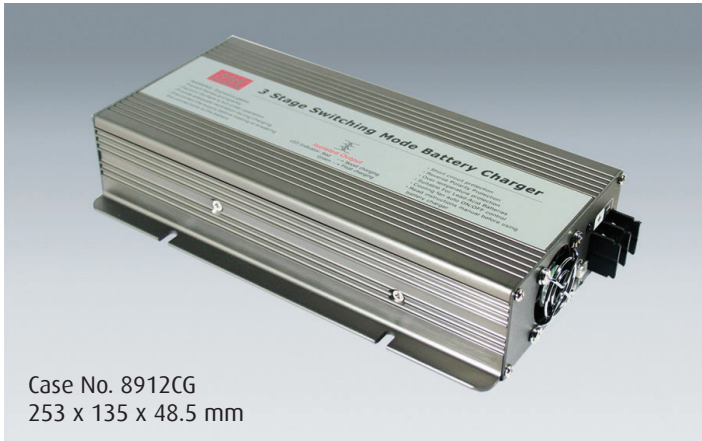


# PB-360P Series

## 360W 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)
- 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
- 2 colour LED loading indicator
- Low cost, high reliability
- Fan ON/OFF control (Depends on charging current)
- 3 years warranty



### Specification

INPUT	<b>Voltage</b>	90V ~ 132VAC / 180 ~ 264VAC selected by switch 127~187VDC / 254~370VDC		
	<b>Frequency</b>	47 ~ 63 Hz		
	<b>Power Factor (Typ.)</b>	PF>0.65 (with P type) at 230VAC		
	<b>AC Current</b>	7A/115VAC 3.5A/230VAC		
	<b>Inrush Current (Typ.)</b>	Cold Start 60A		
	<b>Leakage Current (Max.)</b>	<3.5mA/240VAC		
		<b>Efficiency</b>	85%	86%
OUTPUT	<b>MODEL No.</b>	<b>PB-360P-12</b>	<b>PB-360P-24</b>	<b>PB-360P-48</b>
	<b>Boost Charge Voltage</b>	14.4V	28.8V	57.6V
	<b>Float Charge Voltage</b>	13.6V	27.2V	54.4
	<b>Voltage Adjustable Range</b>	13 ~ 14.7V	26 ~ 28.8V	52 ~ 58.6V
	<b>Recommended Battery Capacity (AMP Hours)</b>	80~340Ah	40~125Ah	20~65Ah
	<b>Battery Type</b>	Open & Sealed Lead Acid		
	<b>Max. Output Current (Typ.)</b>	24.3A	12.5A	6.25A
PROTECTION	<b>Short Circuit</b>	O/P built in fuse (FS100) to protect short circuit condition, shut down o/p voltage and can not re-power on		
	<b>Reverse Polarity</b>	By internal fuse		
	<b>Over Voltage</b>	16 ~ 18V	31 ~ 35V	59 ~ 64V
	<b>Over Temperature</b>	Protection Type: Automatically derate charge current until zero		
FUNCTION	<b>Remote Control (CNS)</b>	Open: Normal Work Short: Stop Charging		
	<b>Working Temperature</b>	-20% ~ +60% (Refer to derating curve)		
ENVIRONMENT	<b>Working Humidity</b>	20 ~ 90°C RH non-condensing		
	<b>Storage Temp., Humidity</b>	-40~ +85°C, 10-95% RH		
	<b>Temp. Coefficient</b>	±0.05%/°C (0~45°C)		
	<b>Vibration</b>	10~500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes		
SAFETY & EMC	<b>Safety Standards</b>	IEC60335-2-29 CB approved by TUV (except for 48V), UL60950-1 approved		
	<b>Withstand Voltage</b>	I/P-O/P: 3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC		
	<b>Isolation Resistance</b>	I/P-OP, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH		
	<b>EMC Emission</b>	Compliance to EN55022 (CISPR22) class B, EN61000-3-2, 3 (only P type)		
	<b>EMC Immunity</b>	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, light industry level, criteria A		
OTHERS	<b>M.T.B.F.</b>	115.8Khrs min. MIL-HDBK-217F (25°C)		
	<b>Packaging</b>	1.5Kg; 6pcs/10Kg/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.

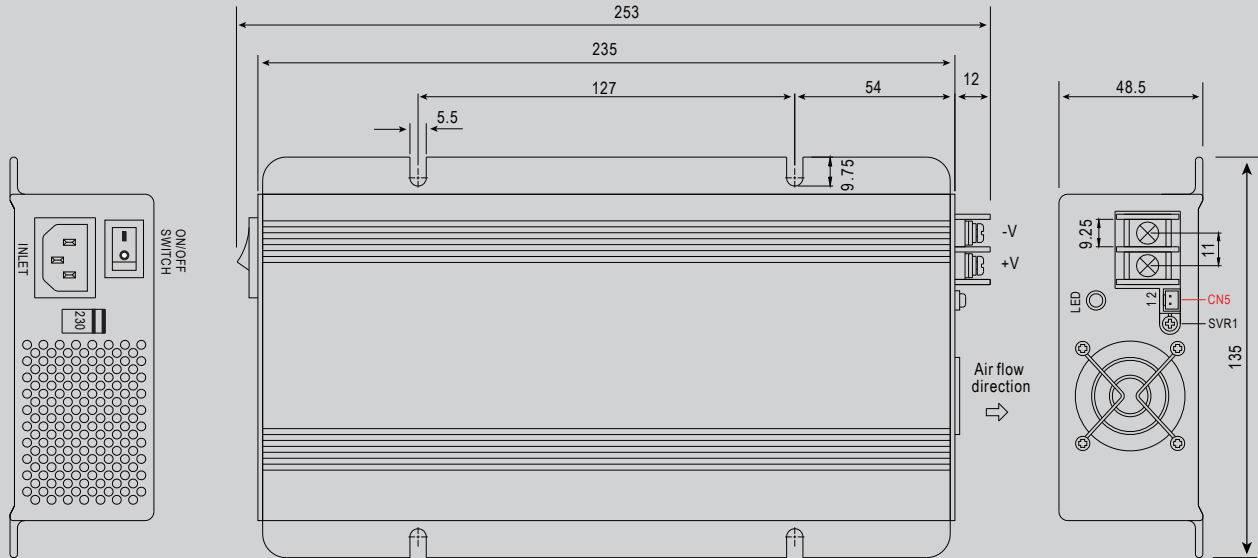
# PB-360P Series

## 360W Single Output Battery Charger



### Mechanical Specification

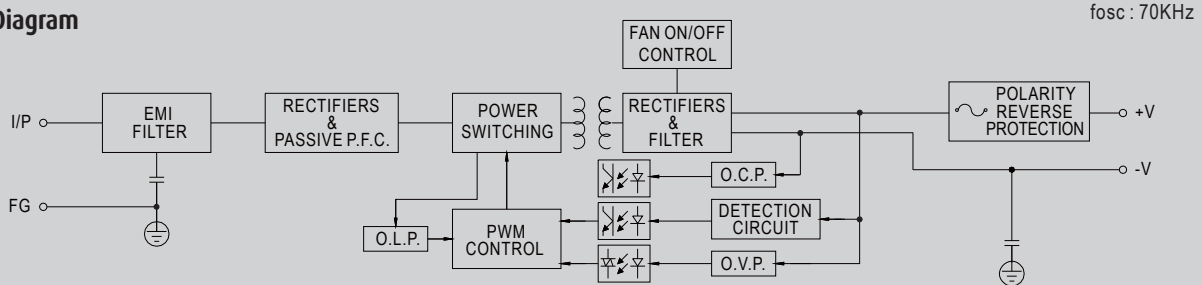
Case No.801A Unit:mm



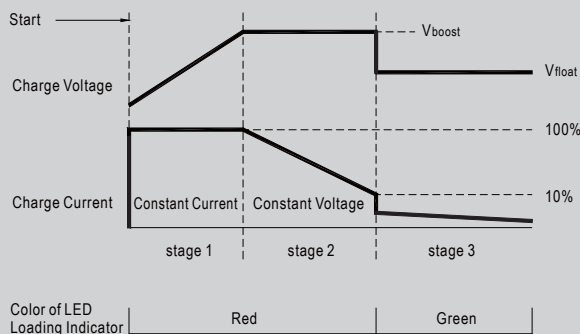
Remote Control(CN5) : JST B2B-XH or equivalent

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

### Derating Curve

