



360W Single Output Battery Charger

PB-360-12CDM series



■ Features :

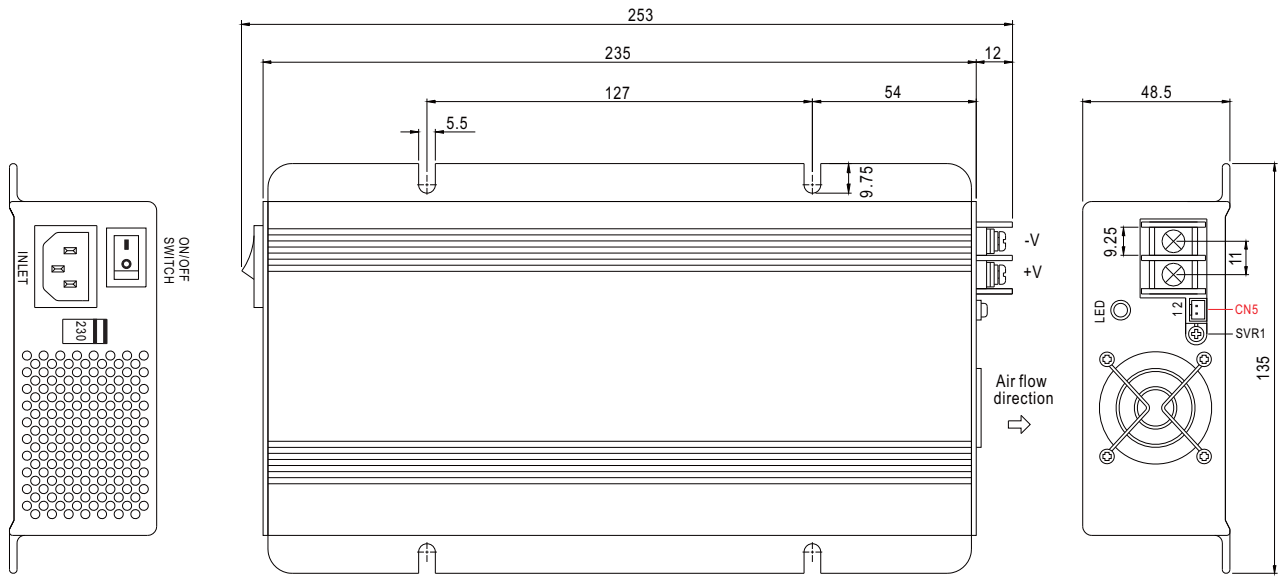
- Charger for lead-acid batteries (flooded, Gel and AGM) and Li-ion batteries (lithium iron and lithium manganese) (Note.1)
- 1 stage float charging with no boost for loaded battery conditions
- AC 115/230VAC selected by switch
- Built-in passive PFC function compliance to EN61000-3-2 Class A (option)
- Protection: Short circuit / Reverse polarity / Over voltage / Over temperature
- 2 color LED loading indicator
- Low cost, High reliability

SPECIFICATION

MODEL		PB-360-12CDM
OUTPUT	FLOAT CHARGE VOLTAGE V_{float}	13.6V
	VOLTAGE ADJUSTABLE RANGE	13 ~ 14.7V
	RECOMMENDED BATTERY CAPACITY(AMP HOURS) Note 6	80 ~ 240Ah
	BATTERY TYPE	Open & Sealed Lead Acid
	OUTPUT CURRENT (Typ.) Note 7	24.3A
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%
	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 Protection type : Shut down o/p voltage, re-power on to recover
FUNCTION	OVER TEMPERATURE	Protection type : Automatically derate charge current until zero
	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), UL60950-1, EAC TP TC 004 approved
	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°C / 70% RH
	EMC EMISSION	Compliance to EN55032 (CISPR32) Class B, EN61000-3-2,-3 (only P type), EAC TP TC 020
OTHERS	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, light industry level, criteria A, EAC TP TC 020
	MTBF	115.8Khrs min. MIL-HDBK-217F (25°C)
	DIMENSION	253*135*48.5mm(L*W*H)
NOTE	PACKING	1.5Kg; 6pcs/10Kg/0.95CUFT
<p>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 0.1µf & 47µf 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).</p>		

Mechanical Specification

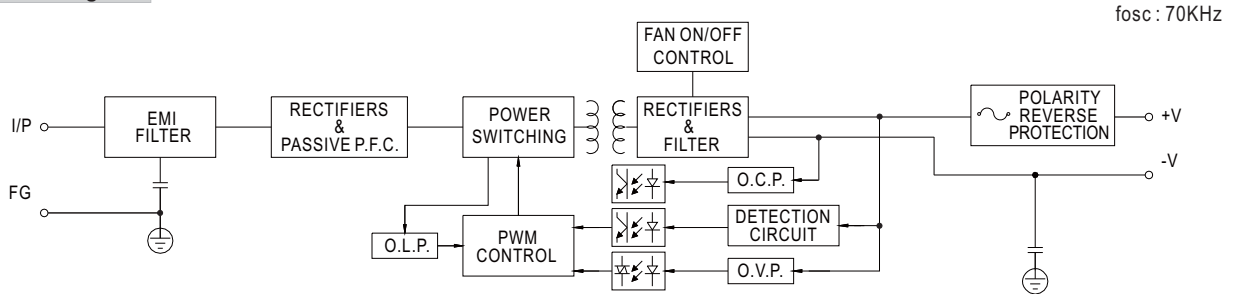
Case No.801A Unit:mm



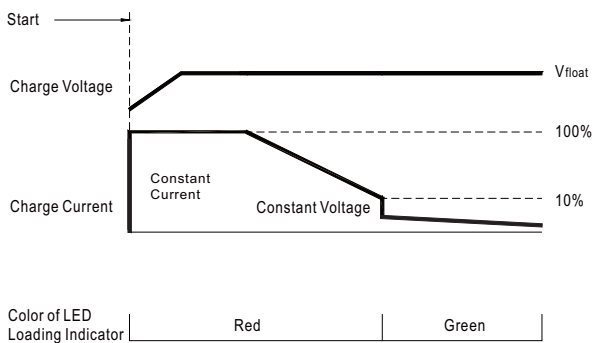
Remote Control(CN5) : JST B2B-XH or equivalent

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
Constant Current	24.3A
Vfloat	13.6V

Output Load VS Temperature

