

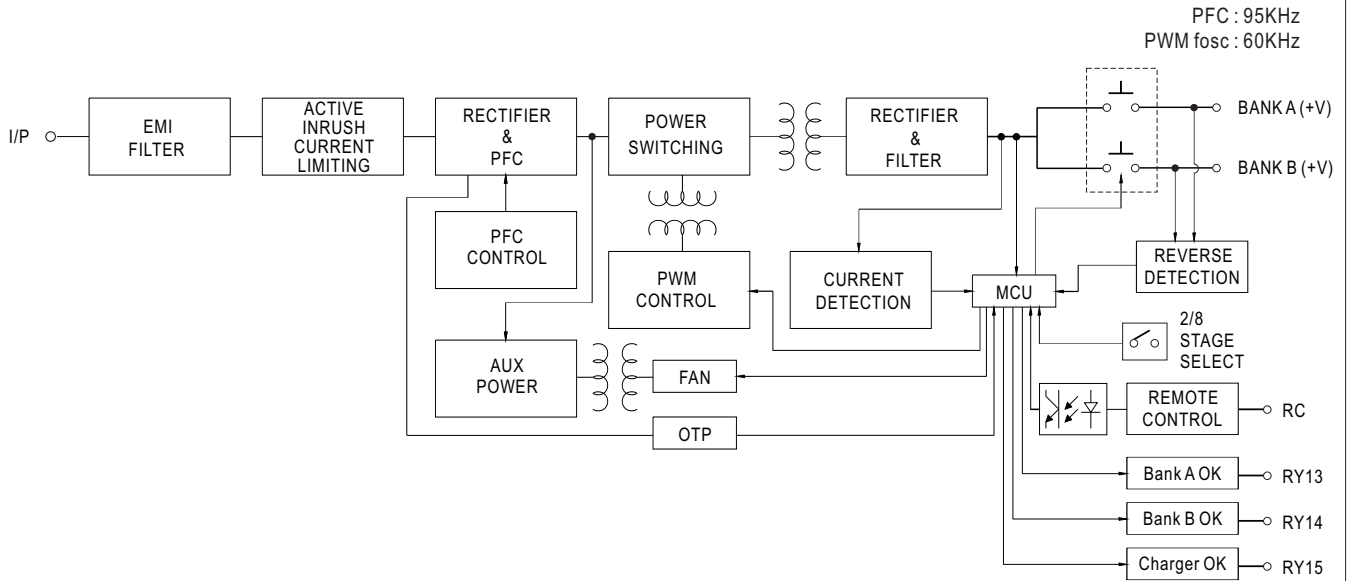
■ Features :

- Charger for lead-acid batteries (flooded, Gel and AGM)
- 2/3/8 stage charging
- Universal AC input
- Controlled by microprocessor
- 2- Bank charger
- Protection: Reverse Polarity/ Short circuit/ Over voltage/ Over temperature

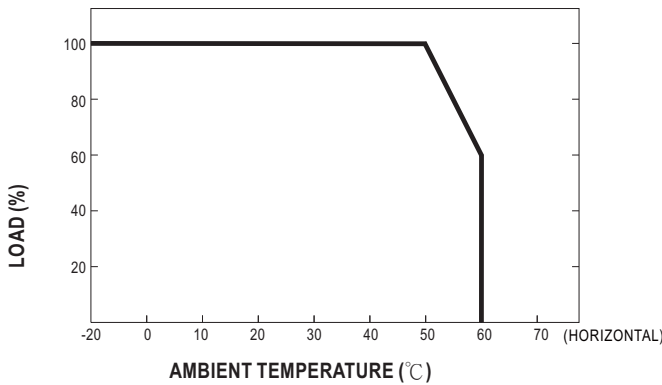
SPECIFICATION

MODEL		BC-12-60-1000	BC-24-34-1000	BC-48-17-1000
OUTPUT	BOOST CHARGE VOLTAGE V_{boost}	14.4V	28.8V	57.6V
	FLOAT CHARGE VOLTAGE V_{float}	13.8V	27.6V	55.2V
	OUTPUT CURRENT	60A	34.7A	17.4A
	RECOMMENDED BATTERY CAPACITY(AMP HOURS)(Note 4)	200 ~ 600Ah	120 ~ 350Ah	60 ~ 175Ah
	BATTERY TYPE	Open & Sealed Lead Acid		
	LEAKAGE CURRENT FROM BATTERY (Typ.)	<1mA		
INPUT	VOLTAGE RANGE	90 ~ 264VAC 127 ~ 370VDC		
	FREQUENCY RANGE	47 ~ 63Hz		
	POWER FACTOR (Typ.)	0.95/230VAC 0.98/115VAC at full load		
	EFFICIENCY (Typ.)	85%	88%	89%
	AC CURRENT (Typ.)	12A/115VAC 5.2A/230VAC		
	INRUSH CURRENT (Typ.)	25A/115VAC 50A/230VAC		
	LEAKAGE CURRENT	<3.5mA / 240VAC		
PROTECTION	OVER VOLTAGE	16 ~ 18V	32 ~ 35V	64.5 ~ 69.5V
		Protection type : Shut down o/p voltage, re-power on to recover		
	OVER TEMPERATURE	Shut down o/p voltage, recovers automatically after temperature goes down		
	SHORT CIRCUIT	YES, protected by internal circuit		
	REVERSE POLARITY			
	YES, protected by internal circuit			
FUNCTION	REMOTE CONTROL	Open: Normal work Short: Stop Charging		
	BATTER BANKS	2 banks (A & B)		
	FAST CHARGE	2 / 3 / 8 stage selectable		
	CHARGER OK	Relay contact rating(max.): 30V/1A resistive ; "Short" when the unit is working properly, "Open" when the unit is failure or the protection function is activating		
	OUTPUT OK	Relay contact rating(max.): 30V/1A resistive ; "Short" when the battery is full, "Open" when the battery is still charging		
	TEMPERATURE COMPENSATION	By NTC, compensate both banks at the same time		
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 ~ 50°C)		
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes		
SAFETY & EMC (Note 3)	SAFETY STANDARDS	UL62368-1, TUV EN62368-1, 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), EN61000-3-2,-3, EAC TP TC 020		
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, light industry level, criteria A, EAC TP TC 020		
OTHERS	MTBF	127.4K hrs min. MIL-HDBK-217F (25°C)		
	DIMENSION	300*184*70mm(L*W*H)		
	PACKING	3.5Kg		
NOTE				

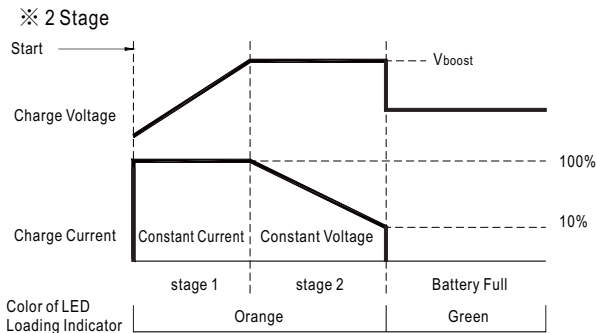
Block Diagram



Derating Curve

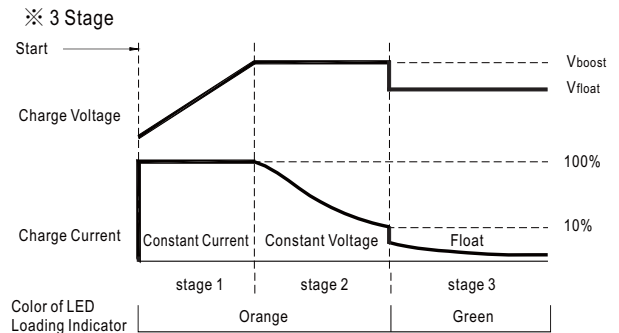


Charging Curve



State	PB-1000-12	PB-1000-24	PB-1000-48
Constant Current	60A	34.7A	17.4A
V _{boost}	14.4V	28.8V	57.6V

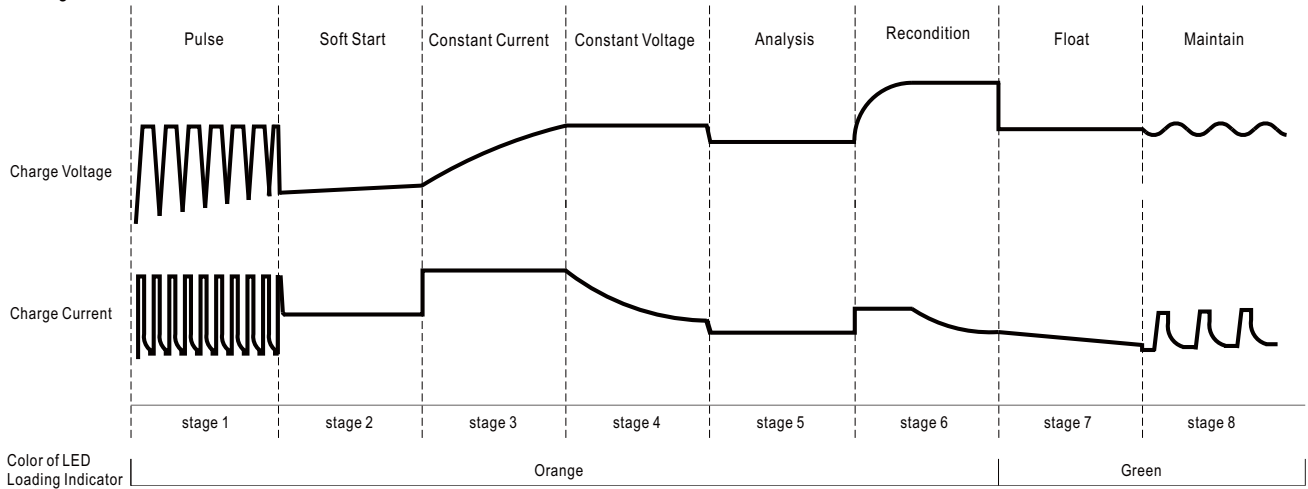
© Suitable for lead-acid batteries (flooded, Gel and AGM) and Li-ion batteries (lithium iron and lithium manganese).



State	PB-1000-12	PB-1000-24	PB-1000-48
Constant Current	60A	34.7A	17.4A
V _{boost}	14.4V	28.8V	57.6V
V _{float}	13.8V	27.6V	55.2V

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8 Stage



- ⊙ Suitable for lead-acid batteries (flooded, Gel and AGM).
- ⊙ "stage 1"(Pulse) and "stage 2"(Soft Start) provide battery rescue function.