

STANDARDS AND ADVANCED SPECIFICATIONS

<u>(3)</u>	UL 1236 SB			
	CEC listed			
NRTL US	CSA C22.2-107.2	P E F		
BYC	Tested to CE standards	Т		
oHS	EN61000-3-2	Т R		
	EN61000-3-3	G		
	EN55014-1	1		
	EN 55014-2	1		
	EN60335-2-29	1		
	EN ISO 13297	2		
	EN 6100-3-2 Class A	V A		

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S SB	12V / 60A model, all other units pro rata
ted	Input voltage range 80-270V 40-70 Hz
2-107.2	Power Factor at 230V 0.976 Efficiency 90.4%
standards	Full load current (110/230V)9.8/4.6ATotal Harmonic Distortion2.4% voltage
)-3-2	Total Harmonic Distortion 2.4% current Ripple noise (R.M.S.) 14mV
)-3-3	Ground leakage 0.5 mA Generator/ mains power (watts)
4-1	12V 20A approx 350Ŵ
14-2	12V 30A approx 500W 12V 40A approx 600W
-2-29	12V 50A approx 750W 12V 60A approx 900W
3297	24V 20A approx 600W 24V 30A approx 900W
Class A	voltmeter accuracy +/- 1%
	Ammeter accuracy +/- 1%



Up to 3 isolated outputs. Each output can carry the full current rating of the charger. However, not all simultaneously - the total current is the charger's rating.

Cables not included with charger.

Additional Specification

–USA California Energy Commision (CEC) listed: CEC regulation stipulates that the charger is only on when necessary. This reduces AC power consumption and lowers operational costs while maintaining healthy batteries. (default setting is on, CEC can be turned off)

–Synchronized Rectification: Mosfet technology, increases overall efficiency over diode based chargers by approximately 8 percentage points.

- Automatic Desulphation / Equalization mode: 7-10 days cycle with anti-stratification program to keep batteries rejuvenated.

- Voltage + Current LED display: 2 LED matrix displays. Left side is the voltmeter and the right side is the ammeter.

– **Performance monitoring LED bar:** An LED display to show what rate the charger is operating at.

– Redundant safety system: In event of failure, the processor provides another system to shut off device, doubling security. The primary emergency backup is digital, the secondary system is analogue both are totally independent of one other.

- High temperature ambient operation rating: Most chargers are only continuously rated at 20 deg C (if even) this unit is rated at continuous operation at 40 deg C ambient.

 Multiple speed fan control: This reduces unnecessary fan noise experienced by the customer, even though the new extreme efficiency reduces the need for fans. At high ambient temperatures (40-50 deg C), however, fans would still be required to ensure operation.

- Thermostatically controlled force draft cooling: To ensure that when the cooling is actually required the noise level is a low as possible for the environmental and power conditions.

- The printed circuit boards are conformal coated: For high humidity and salt air operations.

- % power reduction: To allow unit to work with restricted power available (available on local control or remote control panel).

– **Multiple chargers:** Multiple chargers can be put in parallel to increase current rating. This is also great for redundancy.



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- Temperature of the battery
- Error Messages
- 110 x 68 x 20 mm
- 10 meters of cabling
- · Remote housing surface / recess / flush mounted

- Mark	Pro Charge Ultra							
	DC voltage	Rating (A)	Weight (KG)	L x W x D mm	Weight K	G SKU		
and the second s	12	10	2	260 x 215 x 90	2.0	PCU1210		
	12	20	3	260 x 215 x 90	2.0	PCU1220		
NUM AND	12	30	3	260 x 215 x 90	2.0	PCU1230		
	12	40	3	260 x 215 x 90	2.0	PCU1240		
a starter a	12	50	3	315 x 215 x 90	3.0	PCU1250		
and the second se	12	60	3	315 x 215 x 90	3.0	PCU1260		
	24	20	3	260 x 215 x 90	2.0	PCU2420		
	24	30	3	315 x 215 x 90	3.0	PCU2430		
	36 *	20	3	315 x 215 x 90	3.0	PCU3620*		
	48 *	15	3	315 x 215 x 90	3.0	PCU4815*		
	Remote	control with	10m cable	110 x 68 x 20	0.05	PCUR		
	_							
			* E	Built to UL1236 an	d CEC b	ut not listed		
			Mu	Iti language main	label ov	erlay sticker		
	German	main label o	overlay sticke	r		PCULG		
A A	French	main label of	overlay sticke	r		PCULF		
Basic wired setup	Spanish	main label	overlay sticke	er		PCULS		
cables not included			-			1		
photo courtesv of MDSbatterv.co.uk								



Mixing battery types or voltages

Battery Chemistry Module

You may have a requirement to mix your battery types (chemistry). I.e. AGM, Traction, 12V or 24V. In this case please look at our new range of **Battery Chemistry Modules** designed to simply add to this product and achieve the perfect battery mixture. PLEASE TURN OVER.