



ProChargeUltra

The Ultimate Battery Charger

STERLING POWER



The ultimate in global battery charging

Our new line of **Marine Grade, Power Factor Corrected Battery Chargers** set a new standard of what you should expect from your battery charger when it comes to features, performance & price.

Years of experience in the battery charging industry has provided us the insight to include everything we could possibly think of and combine it all into the **ProCharge Ultra**. This exceptionally efficient power factor corrected battery charger runs on **any global AC power source between 90-270 volts (freq 40-70Hz)**. The unit requires less input power, liberates less waste energy and is still remarkably lightweight with a small footprint.



Awarded
Premium
Product
from
**SAILING
TODAY**

UK magazine:
Sailing Today



USA magazine:
Sail

Principle Features:

- Global Input Power** - automatically operates with an A/C input of 90-270 volts at 40-70 Hz.
- 11 Pre-programmed battery charge curves** - including LiFePO₄, GEL, AGM, FLA and Calcium.
- One customizable charging profile** - Can be set from the charger, no need for a computer.
- Four Step Battery Charging** - protects batteries and prevents overcharging via charging, conditioning and float modes.
- Three battery outputs and one common negative** - allows the user to charge 1, 2 or 3 battery banks.
- Two Digital Meters** - displaying real time current and voltage measurements.
- One power meter** - showing % of charger capacity being used as well as power capacity remaining.
- Active Power Factor Correction (PFC)** - increases efficiency by almost 40% percent over older / non-PFC chargers.
- Synchronized Rectification Output** - increases charger efficiency by 10% over traditional diode based chargers.
- High Voltage de-sulphation cycle** - for customers with flooded lead acid batteries.
- Stand-by Mode** - increases battery life.
- Digital Microprocessor Controlled High Voltage Protection System (Primary)**
- An emergency backup analog controlled high voltage trip (Secondary)**
- Constructed of rust resistant marine grade materials** - Lightweight, compact footprint for easy installation.
- Designed and built to UL1236 Marine & ABYC-31 standards.**
- 32 LED Information Panel** - internal scan and systems check.
- Remote port for optional remote control w/ 10 meter cable** - Remote can be surface, flush, or recess mounted.

Visit the Sterling website for the latest products and news www.sterling-power.com

ProChargeUltra

Specifications



Progressive DIGITAL software control
www.sterling-power.com

AC Power, Auto Temp Control, Active PFC

146 Volts, 20 Amps

Multi Speed Cooling 1 2 3

0% 100% Charger Output

AUTO CONSERVATION MODES
Stand-by, Battery Health Program

CHARGER MODE
Fast Charge, Absorption, Float

System self test

Battery Type: Open lead acid, Sealed lead acid, A.G.M, GEL, Lithium Lifep04, Calcium / Custom

Charger information: DC Output Service, DC Low Voltage, DC High Voltage Trip, High Charger temp trip, Check Fan

High voltage a/c **Warning** Low voltage d/c

To avoid serious injury or death from electric shock. Before opening, turn off the main a/c power. Do not expose to High current capable of causing sparks burns and fires, always disconnect the d/c cables from the

12 v 60 amp model, all other units pro rata

Input voltage range	90-270 v 40-70 Hz
Power Factor at 230 v	0.976
Efficiency	90.4%
Full load current (110/230v)	9.8/4.6 amps
Ripple noise (R.M.S.)	14mV
Ground leakage	0.5 mA
Generator/ mains power required to run unit (watts)	
12 v 20 amp approx	350 watts
12 v 30 amp approx	500 watts
12 v 40 amp approx	600 watts
12 v 50 amp approx	750 watts
12 v 60 amp approx	900 watts
24 v 20 amp approx	600 watts
24 v 30 amp approx	900 watts
voltmeter accuracy	+/- 1%
ammeter accuracy	+/- 1%

Technical Data

32 LED Information Panel

The **ProCharge U** can receive dirty sine wave input (generator) and A/C mains input and work as an affective 3 output battery charger due to its PFC capability.

A/C 80-270V



REMOTE CONTROL (OPTION)

110x 68 x20 mm including 10 metres of cable
Unique remote housing can be surface mounted, recess mounted or flush mounted

Pro Charge Ultra 80-270 V 40-70 Hz a/c input

D/C voltage	Amps	Number of outputs	Size L x W x D mm	Weight kg	Part nos
12	10	2	260 x 215 x 90	2.0	PCU1210
12	20	3	260 x 215 x 90	2.0	PCU1220
12	30	3	260 x 215 x 90	2.0	PCU1230
12	40	3	260 x 215 x 90	2.0	PCU1240
12	50	3	315 x 215 x 90	3.0	PCU1250
12	60	3	315 x 215 x 90	3.0	PCU1260
For larger current requirements simply add 2 or more units together.					
24	20	3	260 x 215 x 90	2.0	PCU2420
24	30	3	315 x 215 x 90	3.0	PCU2430
Remote control plus 10 metres of cable			110 x 68 x 20	0.05	PCUR



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