



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

Sterling smart



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% to 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), De-sulphation, Charger information (DC Output Service, DC Low Voltage, DC High Voltage Trip, High Charger temp trip, Check Fan)

OK, Fault, SETUP ENTER

To avoid serious injury or death from electric shock. Before opening, turn off the main a/c power. Do not expose to **High voltage a/c** **Warning** **Low voltage d/c**

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

STERLING POWER

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