

ProTech-C Series

Industrial Grade On-Board Battery Charger

Fully Automatic Multi-Stage Charging

Extend battery life and usage with multi-stage charging delivering: fast charge times, conditioning and a built in float/maintenance mode safe for long and short term storage.

Auto Ranging Global AC Input

95VAC - 250VAC, 50/60Hz with an IEC AC input connector for universal applications. A lockable AC cable option is also available.

Smart Utility Design

Utilizing quick disconnect connector technology for all connections the ProTech-C requires minimal installation time.

User Selectable Battery Type Charge Profiles and Conditioning Time

External access and selectability of up to 3 battery types and conditioning times of 2 to 6 hours.

Safety Interlock Inhibit

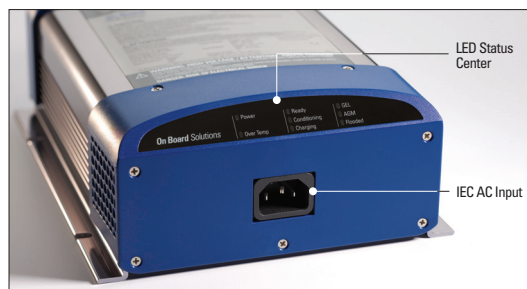
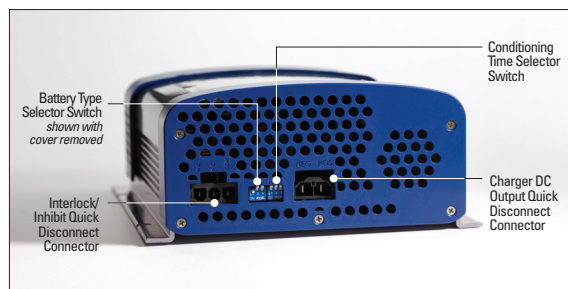
All ProTech-C models include a SPDT 10 Amp internal relay, providing an inhibit function. Feature can be configured for Normally Open (N/O) and or Normally Closed (N/C) operation.

LED Status Center

Provide at-a-glance status of battery type, charge mode, fault condition and AC power status.

Built in Safety

Over temperature, over voltage, over current and reverse polarity.



For 24 and 36 Volt DC Systems

Converts to a Portable Unit in Minutes

Optional portable conversion kit allows all ProTech-C models to convert to portable use in minutes.

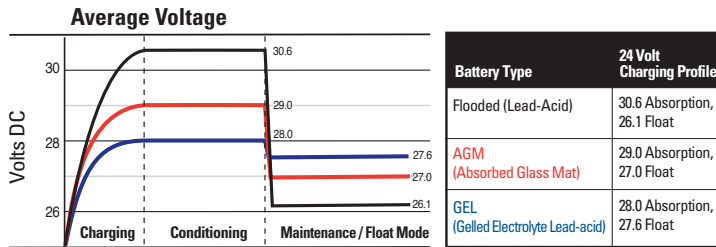


Specifications

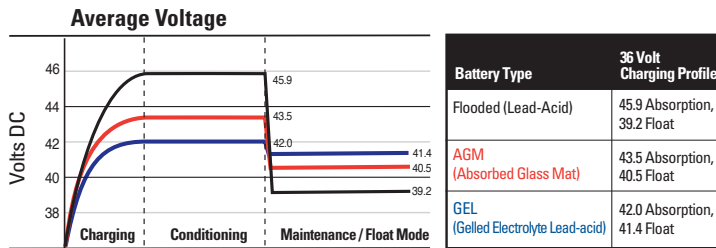
part no.	model	AC in	AC input current (95VAC/250VAC)	volts DC	DC amps	dimensions (L) x (W) x (H)	weight
90417	ProTech2412C	95 to 250 VAC 50/60 Hz Autoranging	8 Amps / 4 Amps	24 Volts	12 Amps	9.92" x 7.187" x 2.875" (252 mm x 183 mm x 73 mm)	4.4 lbs
90424	ProTech2420C	95 to 250 VAC 50/60 Hz Autoranging	10 Amps / 5 Amps	24 Volts	20 Amps	11.417" x 7.187" x 2.875" (290 mm x 183 mm x 73 mm)	5.9 lbs
90425	ProTech2425C	95 to 250 VAC 50/60 Hz Autoranging	12 Amps / 6 Amps	24 Volts	25 Amps	11.417" x 7.187" x 2.875" (290 mm x 183 mm x 73 mm)	5.9 lbs
90430	ProTech3612C	95 to 250 VAC 50/60 Hz Autoranging	10 Amps / 5 Amps	36 Volts	12 Amps	11.417" x 7.187" x 2.875" (290 mm x 183 mm x 73 mm)	5.9 lbs
90434	ProTech3616C	95 to 250 VAC 50/60 Hz Autoranging	12 Amps / 6 Amps	36 Volts	16 Amps	11.417" x 7.187" x 2.875" (290 mm x 183 mm x 73 mm)	5.9 lbs

ProTech-C Quick Reference Specifications

24 Volt Charge Profiles by Battery Type



36 Volt Charge Profiles by Battery Type



Stage 1 - ProTech-C Charging:

During this mode, the ProTech-C will use its available charging amps (as controlled by temperature) until battery voltage is raised to the voltage graphed for Voltage Model and Battery Type Listed.

Stage 2 - ProTech-C Conditioning:

The ProTech-C will hold batteries at the voltage graphed for Voltage Model and Battery Type Listed, for 2 to 6 hours (as selected during set up) providing a 100% charge to each battery, while conditioning them by desulfating each one. Upon completion, the ProTech-C will go into its maintenance mode.

Stage 3 - ProTech-C Ready / Maintenance Mode:

During this mode, the ProTech-C will hold batteries at the voltage graphed for Voltage Model and Battery Type Listed, followed by the Green READY LED turning on. ProTech-C will automatically maintain batteries in this mode.

Safety Interlock Inhibit Ratings

10 Amp DC SPDT Relay Rated up to 48VDC

Regulatory

Safety: ULc 1564 3rd Edition, CSA C22.2 No. 107.2-01 EN60335-2-29
Emissions: FCC Part 15 Class B, EN61000-6-4 : 2001
Immunity: EN61000-4-2, -3, -4, -5, -6, -8, -11
Marks: ULc (US & Canada), CE

Mechanical/Environmental

Weight: 4.4 lbs (2.0 Kg) – 24V/12A unit / 5.9 lbs (2.7 Kg) 24V/20A, 24V/25A, 36V/12A, 36V/16A
Operating Temperature: 0 to 40° Celsius (32° to 104° Fahrenheit)
Storage Temperature: -20° to +70° Celsius (-4° to 158° Fahrenheit)
Output Wiring: #10 AWG on DC output
#16 AWG on inhibit circuit (onboard apps only)

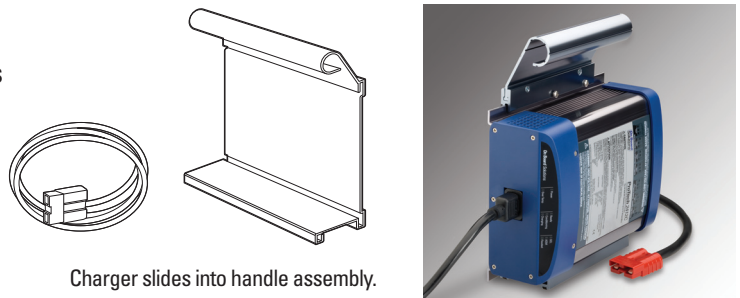
ProTech-C On-Board to Portable Conversion Kit

For Use with ProTech-C Battery Chargers

Convert Any ProTech-C Charger to a Portable Unit in Minutes

Kit includes:

- Portable Charger Caddy
- ProTech-C Quick Disconnect DC Output Cable with Various Rated SB Style Connectors
- Instructions



Optional Items

The following parts are available as follows.

Part No.	Item Description
01100	ProTech-C AC Power Cord (US Version) non-locking type
01101	ProTech-C Quick Disconnect Inhibit Cable (Allows for the use of ProTech-C's standard safety interlock feature for on-board applications)
01102	ProTech-C Quick Disconnect DC output cable with ring terminals
01103	ProTech-C Quick Disconnect DC Output Cable with RED SB-50 Connector (Typical for 24VDC applications)
01106	ProTech-C Quick Disconnect DC Output Cable with GRAY SB-50 Connector (Typical for 36VDC applications)
01105	ProTech-C Portable Charger Caddy (no cables)
63008	ProTech-C Optional Drip Shield
51204	Golf Cart adapter plate with AC receptacle assembly (retrofit)

Optional Portable Kits

Part No.	Item Description
90500	ProTech-C Portable Kit # 1 <i>Includes:</i> Portable Charger Caddy ProTech-C Quick Disconnect DC Output Cable with RED SB-50 Connector
90501	ProTech-C Portable Kit # 2 <i>Includes:</i> Portable Charger Caddy ProTech-C Quick Disconnect DC Output Cable with GRAY SB-50 Connector