

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.

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 3 most common battery types and conditioning times of 2 to 6 hours.

Safety Interlock Inhibit

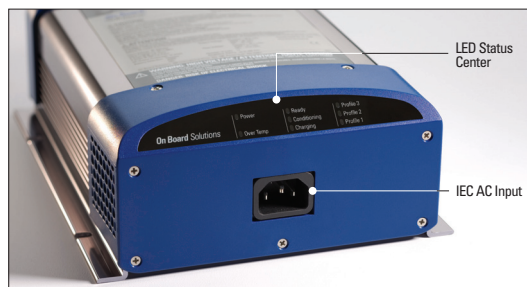
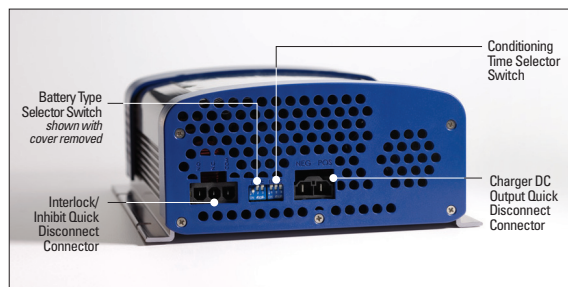
All ProTech-C models include a SPDT 10 Amp internal relay, providing an inhibit function. Feature can be configured for Normally Open (N/O) and or Normally Closed (N/C) operation.

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.



Specifications

part no.	model	AC in	AC input current (95VAC/250VAC)	volts DC	DC amps	dimensions (L) x (W) x (H)	weight
90435	ProTech4815C	95 to 250 VAC 50/60 Hz Autoranging	12 Amps / 6 Amps	48 Volts	15 Amps	11.417" x 7.187" x 2.875" (290 mm x 183 mm x 73 mm)	5.9 lbs



For 48 Volt DC Systems

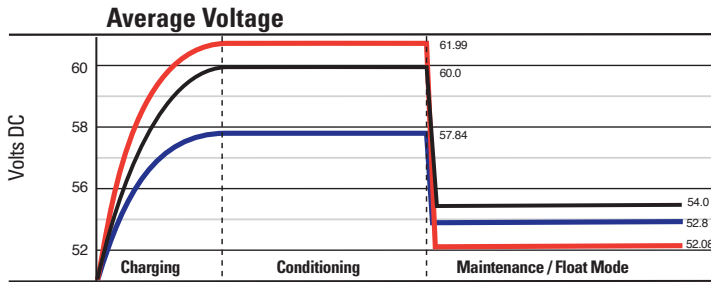
Converts to a Portable Unit in Minutes

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



ProTech-C Quick Reference Specifications

48 Volt Charge Profiles



Profile	48 Volt Charging Profile	
Profile 1	60.0 Absorption,	54.0 Float
Profile 2	61.99 Absorption,	52.08 Float
Profile 3	57.84 Absorption,	52.8 Float

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:	CE

Charge Profile Selection:

The ProTech-C 4815 offers great flexibility by providing the 3 most common charge profiles used in the industry. They can be used for the most common types of batteries and battery manufacturers.

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

Mechanical/Environmental

Weight:	5.9 lbs (2.7 Kg)
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)

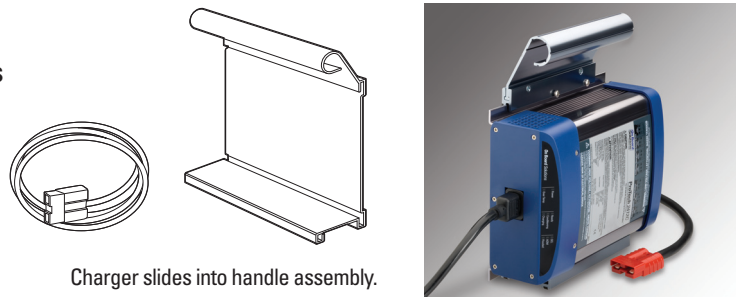
ProTech-C On-Board to Portable Conversion Kit

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



Charger slides into handle assembly.

Optional Items

The following parts are available as follows.

Part No.	Item Description
01100	ProTech-C AC Power Cord (US Version)
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
01106	ProTech-C Quick Disconnect DC Output Cable with GRAY SB-50 Connector
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