



PCVFi Series Industrial Battery Chargers 24, 48, 120 or 240Vdc, 25 to 300 A Output



Standard Features

User Friendly Interface

- LCD with Status, Meter and Alarm screens.
- Industrial style LED Mimic Diagram.
- Nine button control keypad.
- 200 event Alarm History with date and time stamp.
- Four remote alarm contacts (user configurable).
- RS-485, 2-wire interface with Modbus protocol.
- RS-232 interface with Philtek protocol.

Power Circuit

- Constant voltage output, SCR controlled circuitry.
- Six SCR control for 3 phase input.
- Capable of operating as DC Power Supply with battery disconnected.
- Foldback current limiting.
- Equalize timer with manual or auto set and reset.
- Battery Temperature Compensation Option available.
- AC Input isolation transformer provides galvanic isolation between AC and DC circuits.
- $\pm 5\%$ transformer AC input taps.
- Input and Output Circuit Breakers.
- Available in Single or Three Phase, 60Hz or 50Hz inputs.

Packaging

- Enclosure Size 2: Wall mount, 19" rack mount or 23" rack mount design. Rack sold separately. Air intake at front and bottom, exhaust at top.
- Enclosure Size 3: 23" rack mount design. Rack sold separately. Air intake at front and bottom, exhaust at top.
- Enclosure Size 4: Free standing floor mount design. Air intake at front and exhaust at top.
- Rear clearance is not required.
- Natural convection or forced air with temperature controlled variable speed cooling fans.

Charger Specifications (Subject to change without notice)

AC Input

Voltage Range Nominal $\pm 10\%$ (not incl. input taps)
 Frequency Range Nominal $\pm 5\%$

DC Output

Float Voltage Range 100% to 120% of nominal
 Equalize Voltage Range 100% to 120% of nominal
 Static Regulation $\pm 0.5\%$
 Ripple 1.5% RMS typical, additional filtering optional
 Efficiency 85 to 95% at full load, nominal input and float output
 Current Limit: 50 - 110 %, 110% Factory Set

Metering

Standard DC Output: V, A & KW
 Optional AC Input: V, A & Hz

Operating Environment

Temperature 0° C to 50° C
 Humidity $\leq 95\%$ RH non condensing
 Audible noise ≤ 65 dBA @ 1 meter [3']

Standard Models and Enclosure

Output	25A	50A	75A	100A	200A	300A
24V	2	2	2	2	3	3
48V	2	2	2	2	3	3
120V	2	2	3	3	4	4
240V	2	3	3	4	4	-

Enclosure Dimensions

Size	Width	Depth	Height	Mounting
2	432 [17]	375 [14.75]	622 [24.5]	19"/23" Rack or Wall Mount
3	533 [21]	432 [17]	913 [36]	23" Rack Mount
4	610 [24]	643 [25.3]	1565 [61.6]	Floor Standing

Dimensions are in mm [inches].

Model Number:

PCVFi 120 / 100 - 3N + OPTIONS

Nominal DC Output Voltage

24: 24 Vdc
48: 48 Vdc
120: 120 Vdc
240: 240 Vdc

Output Current

25: 25A
50: 50A
75: 75A
100: 100A
150: 150A
200: 200A
300: 300A

AC Input Voltage

N: 120V, 60Hz, 1PH
A: 220V, 50Hz, 1PH
AS: 230V, 50Hz, 1PH
C: 240V, 60Hz, 1PH
D: 208V, 60Hz, 1PH
E: 277V, 60Hz, 1PH
Y: 220V, 60Hz, 1PH
YS: 230V, 60Hz, 1PH
3N: 208V, 60Hz, 3PH
3A: 380V, 50Hz, 3PH
3AS: 400V, 50Hz, 3PH
3E: 480V, 60Hz, 3PH
3F: 600V, 60Hz, 3PH

Custom voltages available.
 Note: 2W for 1 phase inputs,
 3W for 3 phase inputs.

Options

ACM: AC Input Metering.
AL8: Four contacts added for a total of eight Remote Alarm Contacts.
BLD: DC blocking diode.
DCF: Additional DC Filtering, % to be specified.
ENC4: Enclosure upsized to Size 4 freestanding cabinet.
GFA: Ground Fault alarm.
ICS: Input circuit breaker with high DC voltage shunt trip.
SVW: Replaces the RS-232 port with an internal Status-Via-Web Ethernet device.
TC: Temperature Compensation.

For More Information please Contact:

In Canada

In USA

Philtek Electronics Ltd.

Philtek Power Corp.

Tel: (604) 270-4642

Tel: (360) 332-7252

Fax: (604) 270-8343

E-mail: info@philtek.com