



Pii's Uni-Directional Chargers No 480V? No Problem!



Description

Power Innovations International's family of uni-directional DC Fast Chargers are available in power ratings from 30 kW up to 120 kW in compact, all-in-one systems. Each charger offers highly flexible and field configurable Vac input power configurations with no de-rating.

This flexibility provides the ability to accept the most common distribution voltages in the same product, helping to reduce overall infrastructure costs and allow easier installation.

Key Features and Advantages

- Highly flexible power input with no de-rating
- Field replaceable power modules
- Demonstrated MTBF on PSU topology of over 1 million hours
- Multiple payment/authorization methods
- Remote upgrades via Over-the-Air updates
- ISO/IEC 14443 A/B, ISO 15393, NFC Reader Mode
- Cellular 4G LTE, Wi-Fi
- DIN 70121 and OCPP 1.6J compliant

Electrical Specifications

Model	Power Rating	Input Voltage	Output Voltage
EVQC030-M to EVQC060-M	30 to 60 kW	240 Vac Single Phase (up to 50 kW) 208 or 240 Vac Delta 480 Wye	250 to 920 Vdc
EVQC030-E to EVQC050-E	30 to 50 kW		
EVQC030/060	30 kW/60 kW		
EVFC060	60 kW		
EVFC120	120 kW	208 or 240 Vac Delta 480 Wye	
EVDC030/060	30 to 60 kW	240 Vac Single Phase (up to 50 kW) 208 or 240 Vac Delta 480 Wye 120 to 420 Vdc	

Mechanical and Environmental Specifications

Model	Mounting	Connectors	Standard Cable Length	Operating Temperature
EVQC030-M to EVQC060-M	Mobile / On Wheels	(1) CCS1 or NACS	5 m	-30 °C to +50 °C
EVCQ030-E to EVQC050-E	Mobile / On Wheels	(1) CCS1 or NACS	5 m	
EVQC030/EVDC030	Pedestal or Wall Mount	(1) CCS1 or NACS	5 m	
EVQC060/EVFC060/EVDC060	Pedestal	Up to (2) CCS1 or NACS	5 m	
EVFC120	All-in-One Cabinet	Up to (2) CCS1 or NACS	5.5 m or 8 m ²	

Notes

1: 5.5 m with no cable management, 8 m with cable management

Pii's Bi-Directional Chargers: Flexible Power Input and Output

Description

Power Innovations International's bi-directional chargers are all-in-one DC quick chargers that enable up to 60 kW of bi-directional charging input and output. They can also be configured to provide **different charging and discharging power**, totaling up to 120 kW of power in and out.

Key Features and Advantages

- Bi-directional, vehicle-to-grid (V2G) charging
- Demonstrated MTBF on PSU topology of over 1 million hours
- IP54/NEMA 3R enclosure
- Power input/output definable in shelves
- Network interfaces: Cellular 4G LTE and Wi-Fi

Possible Power Configurations in a Single Pii Power Shelf: 30 kW Example

1 ROW = 10kW



CHARGE/DISCHARGE RATIOS

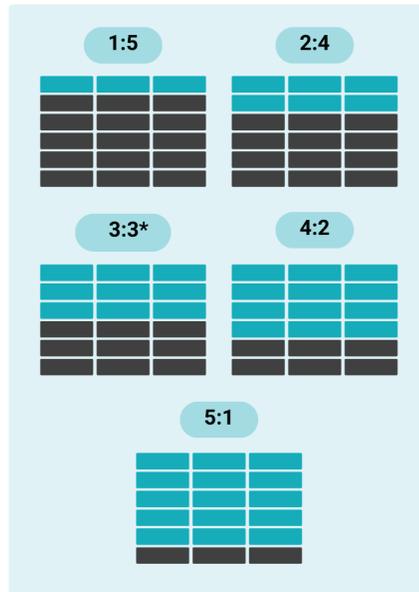
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CHARGE

+

DISCHARGE

-



*Standard 30kW



Key Specifications

Rated Power	Standard Configurations: 30 or 60 kW Charging & discharging Alternate Configurations (Cabinet Model): 70/50 kW & 80/40 kW
AC Grid Voltage	208 or 240 Vac 3-Phase (3P + PE) Delta 480/277 Vac 3-Phase (3P + N + PE) Wye
AC Current	195 A maximum (208 or 240 Vac 3-phase Delta) 85 A maximum (480Vac 3-phase Wye)
DC Output Voltage Range	250 to 920 Vdc
DC Input Voltage Range	290 to 450 Vdc, or 520 to 900 Vdc

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Power Innovations International
1305 South 630 East
American Fork, UT 84003
United States
www.PowerInnovations.com