# HIGHBURY DC

## BI-DIRECTIONAL


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APP CONTROL

CHADEMO/CCS

EFFICIENCY $\eta$

CHARGE >96%
EXPORT >95%

OCPP

OCPP INTERFACE

WI-FI/CELLULAR CONNECTIVITY

REDUCED OVERALL SYSTEM COST (NO OBC)

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**The Highbury DC Bi-directional is the world's slimmest bi-directional DC charger, ideal for installation in carports and tight spaces. It delivers 7kW or 11kW of DC power, and is capable of bi-directional charging at high efficiencies.**

RECTIFIER TECHNOLOGIES

985-1106-03

# HIGHBURY DC
## Bi-Directional

Making your EV an energy storage system when it is parked. The Highbury DC Bi-directional is easy-to-use and supports the exporting of energy from an EV battery to the grid.

## GENERAL

**Efficiency**

Charge Mode: >96 %

Export Mode: >95 %

## ENVIRONMENTAL

**Operating Range**

-30 °C to +50 °C

≤ 90 %RH

**Storage Range**

-40 °C to +70 °C

≤ 95 %RH

**Ingress Protection**

IP44

**Installation Environment**

For indoor or outdoor use

| AC Grid | 1-Phase | 3-Phase |
|---|---|---|
| Nominal Voltage | 220, 230, 240 $V_{AC}$<br>3-wire (L+N+E) | 380, 400, 415 $V_{AC}$<br>5-wire (3L+N+E) |
| Nominal Frequency | 50, 60 Hz | |
| Maximum Current | ±30 $A_{AC}$[1] | ±16 $A_{AC}$[1] |
| Power Factor | Adjustable 0.8 leading – 0.8 lagging | |
| **DC Output** | | |
| Maximum Power | ±7 kW[1] | ±11 kW[1] |
| Voltage Range | 50 – 500 $V_{DC}$ | |
| Rated Current | 32 $A_{DC}$ | |
| Connector Type | CHAdeMO or<br>CCS type 1 per IEC 62196-3 or<br>CCS type 2 per IEC 62196-3 | |

*[1] V2H/V2G limit may be reduced due to region or site specific requirements*

## MECHANICAL

**Dimensions**

H: 820 mm

W: 350 mm (without cables)

D: 123 mm

**Weight**

< 32 kg (approx.)

**Mounting**

Wall Mounted

## STANDARDS

**Features and Safety**

IEC61851-1: 3rd Ed 2017 and IEC61851-23: 1st Ed 2014, or UL 1741: 2nd Edition and UL 9741: 2nd Edition

**EMC Emissions and Immunity**

IEC 61851-21-2: 1st edition 2018

**Vehicle Communications**

CHAdeMO V2X,

or DIN 70121 and ISO15118: 2nd Edition

**Grid Connection**

VDE-AR-N 4105:2018-11,

or UL1741: 2nd Edition and IEEE 1547: 2018

**Communication**

OCPP 2.0

## CONNECTIONS

**AC Cable**

Bottom entry in circular conduit

**EV Output**

Selected plug type with 4.0m cable, secure plug holder

**Communication Interfaces**

Wi-Fi

Bluetooth (optional)

Cellular (optional)

RS485 MODBUS

for external power meters (optional)

Ethernet (optional)

**User Interface**

Smartphone app (Android and iOS)

Installation configuration by webpage