HIGHBURY DC

BI-DIRECTIONAL

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APP CONTROL

CHADEMO/CCS

EFFICIENCY η

CHARGE >96%
EXPORT >95%

OCPP

OCPP INTERFACE

WI-FI/CELLULAR CONNECTIVITY

REDUCED OVERALL SYSTEM COST (NO OBC)

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

985-1106-02

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} 3-wire (L+N+E)	380, 400, 415 V_{AC} 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 CCS type 1 per IEC 62196-3 or 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 70210 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