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.
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%

STANDARDS

Features and Safety

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

ENVIRONMENTAL

Operating Range
-30 °C to +50 °C ≤ 90 %RH

Storage Range
-40 °C to +70 °C ≤ 95 %RH

Ingress Protection
IP44

MECHANICAL

Dimensions
H: 820 mm
W: 350 mm (without cables)
D: 123 mm

Weight
< 32 kg (approx.)

Mounting
Wall Mounted

AC Grid

<table>
<thead>
<tr>
<th>1-Phase</th>
<th>3-Phase</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Voltage</td>
<td>220, 230, 240 V&lt;sub&gt;AC&lt;/sub&gt; 3-wire (L+N+E)</td>
</tr>
<tr>
<td>Nominal Frequency</td>
<td>50, 60 Hz</td>
</tr>
<tr>
<td>Maximum Current</td>
<td>±30 A&lt;sub&gt;AC&lt;sup&gt;1&lt;/sup&gt;</td>
</tr>
<tr>
<td>Power Factor</td>
<td>Adjustable 0.8 leading – 0.8 lagging</td>
</tr>
</tbody>
</table>

DC Output

<table>
<thead>
<tr>
<th>1-Phase</th>
<th>3-Phase</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Power</td>
<td>±7 kW&lt;sup&gt;1&lt;/sup&gt;</td>
</tr>
<tr>
<td>Voltage Range</td>
<td>50 – 500 V&lt;sub&gt;DC&lt;/sub&gt;</td>
</tr>
<tr>
<td>Rated Current</td>
<td>32 A&lt;sub&gt;DC&lt;/sub&gt;</td>
</tr>
</tbody>
</table>

Connector Type
CHAdeMO or CCS type 1 per IEC 62196-3 or CCS type 2 per IEC 62196-3

<sup>1</sup>V2H/V2G limit may be reduced due to region or site specific requirements