

Boomerang

Powering the grid from your driveway
Australia's first 11kW DC bi-directional charger



V2G
VEHICLE TO
GRID

V2H
VEHICLE TO
HOME

DC
11KW DC BiDi
CHARGING

Specifications

Version:	11EU316
AC max. power:	11 kVA - 10,7kW charge / 10,4kW discharge
AC Input Voltage level:	3 Phases, 230/400V AC (Europe) , 50Hz
AC Input voltage tolerance:	+/- 10% (Static)
Power factor:	>= 99%
Total Harmonic Distortion (THD):	<= 5%
DC Output voltage:	150 – 500V DC
DC Output current:	30A
DC Output Current ripple:	<+-3% max. current
DC max. power:	10.5kW charge & discharge at 350V
Topology:	Isolated
Safety and Protection:	Galvanic isolation Input to Output Rapid discharge DC Output Over current monitoring Reverse polarity protection DC Output Fuses Temperature monitoring Isolation monitoring 6mA DC differential current sensor Self-test
Lifetime:	10+ years
Standby operation time:	100.000 hours
Active operation time:	>21.000 hours (according OEM standard use case)
Communication to car:	ISO15118-2, ISO15118-20*, DIN SPEC 70121*
Diagnose:	Remote, OCCP
to Backend/CPO/EMS:	OCPP1.6J, OCPP2.0.1*, OCPP2.1*, HTTPS (Websockets etc.)*, MQTT*, SmartHome protocols*, Modbus TCP
Data interfaces:	Ethernet (LAN), WLAN
Weight:	27kg (w/o beauty cover and charging cable)
Dimensions:	633mm x 385mm x 230mm
Operating temperature:	-20 to +50°C
Humidity:	Up to 95 %
Operation height:	2000m over sea level
Cooling concept	active, temperature controlled
IP Class:	IP54 enclosure
EMC:	According to EN61000-6-2 / EN61000-6-4
Norms and Standards:	IEC 61851-1, IEC 61851-23, EN 50549, local grid codes (AS/NZS 4777 - in process)
Certifications:	Australian certification in process

Features

Bidirectional V2G/V2H operation

ISO 15118 compatible

sid-OS Energy Framework

Grid compliant - local grid code certifications

Compatible with CCS2 and ISO 15118-2/-20 communication standards

Boomerang: The charger that gives power back

In partnership with ambibox, RedEarth is utilising their proven bidirectional charging technology to manufacture Australia's **first certified V2G DC charger**, redefining what's possible for home and vehicle energy use.

Boomerang turns any compatible electric vehicle into a **battery on wheels**, allowing energy to flow both ways between the car, the home, and the grid.

For resellers, it's a new way to deliver value, open new revenue opportunities, and position your business at the forefront of Australia's clean energy transition.

For end-users, Boomerang delivers **lower energy costs, backup power during outages**, and the ability to **support the grid** while staying **future-ready** for emerging energy markets — putting real power and control back into consumer's hands.



Australian-made



Rebate eligible!



Scalable solutions



Energy trading



Control your power

Need support? No worries.

RedEarth is with you all the way, from technical support during installation, to ongoing monitoring and guidance for your system for years to come. Our Australian-based team is on call to make **powering yourself** as easy as possible.

Power yourself.

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