

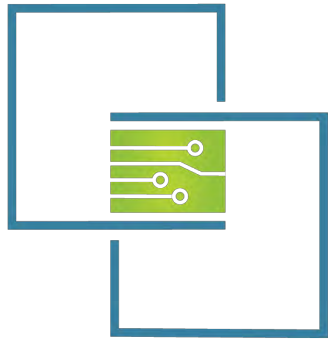


# Randridge Technologies

Powering our clean future



## RT Premium Brochure



# Randridge Technologies

Powering our clean future

Based in Ireland, Randridge Technologies offers Electric Vehicle Charging solutions to clients large and small, providing extensive experience, excellent quality to all of our clients. Using our many years of experience on major electrical projects around the world, we are constantly developing newer applications in the EV charging sector, and also in the area of clean energy production and storage.

Our mission is to contribute to the environmental protection of our planet by utilising green energy. We aim to do this by harnessing the newest EV charging technology to provide commercially realistic applications for homes and businesses.

Supplying everything from your standard home-charging unit to the powerful 150kW DC chargers found in petrol stations worldwide. Our newest partnership with Ensto Finland & Virta Ltd allows us to provide all-inclusive EV charging packages to domestic, commercial and public sectors nationwide and a high-tech, easy to use charging app to make public charging that much simpler.

At Randridge Technologies, we take great pride in each & every EV / PHEV Charging installation we complete, large or small. We manage every project from start to finish using our extensive experience and knowledge.

## Our Partners



# Wallbox - EVB Series

The RT Wallbox is a modular solution for single or dual EV charging. Its compact and user-friendly design makes it a perfect choice for daily charging in private, public, or semi-public locations.

The Wallbox is perfect for large installations in car parks, offices, and real estates – offering the best charging experience with smart services.

## It's Smart

OCPP 1.6 and dynamic load management are basic features of RT Wallbox. With these RT Wallbox qualifies as smartest EV charger on market.

## It's Tough

The structure of the RT Wallbox guarantees durability for both the weather (IP54) and external impacts (IK10).

## It's Flexible

Agile factory commissioning to back-end systems and wide range of customer tailoring's will make RT Wallbox the most suitable selection to customers.

## It's Visible

RT Wallbox is equipped with back-lighted body. Nice ambient light makes Wallbox easy to locate and comfortable to operate



Available in EVB 100 & EVB 200

EVB100 - Single Charging / EVB 200 - Dual Charging



# Wallbox - EVB Series

## Specifications

Charging Outlet	1 or 2 Mode 3 / Type 2 Socket 1 or 2 Mode 3 / Type 1 or Type @ Cables Option: Charging cable fixing by software (cables not included)
Nominal Value	1-ph/3-ph, 230/400VAc, 50Hz
Charging Power/ Current	Max. 22kW/T2 Socket Charging Current configurable from 6A to 32A
IP Class	IP54
IK Class	IK10
Protection Options	6mA DC Residual Current Monitoring
Control and Communication	Standalone/Online 2G/3G, LAN OCPP 1.5/ 1.6 IEC 15118 Master / Slave
Operating Temperature	-30°C to +50°C
User Interfaces	Local Authentication by RFid (ISO/IEC 14443A/B ISO/IEC15693) NFC 3—Colour LED Status indication (Ready Charging, Error)
Mounting / Installation	Wall or Pole Mounting
Standards / Requirements	CE, IEC 61851-1



# Ensto ONE HOME

Ensto One Home makes your EV charging easy and safe. Elegant and durable charging unit is a key to super electric driving experience. Fixed cable is always available for you to use.

EV's and PHEV's spend most of their time at home, just like you. Ensto One Home is the easy and safe way to charge your car while you can concentrate on other, more important matters. Ensto One Home ensures the Super Electric Driving Experience.

## Super Easy Installing

Ensto One Home is easy and fast to install on the wall or on a dedicated Ensto One Pole. It's also super fast to get ready, Ensto Charger Control app enables adjusting charging current if needed and that's it.

## Super Easy Charging

Ensto One Home is always equipped with a fixed 5-meter charging cable and Type 2 plug. When not in use, plug rests gently in the middle of the indicator ring. Super easy, right?

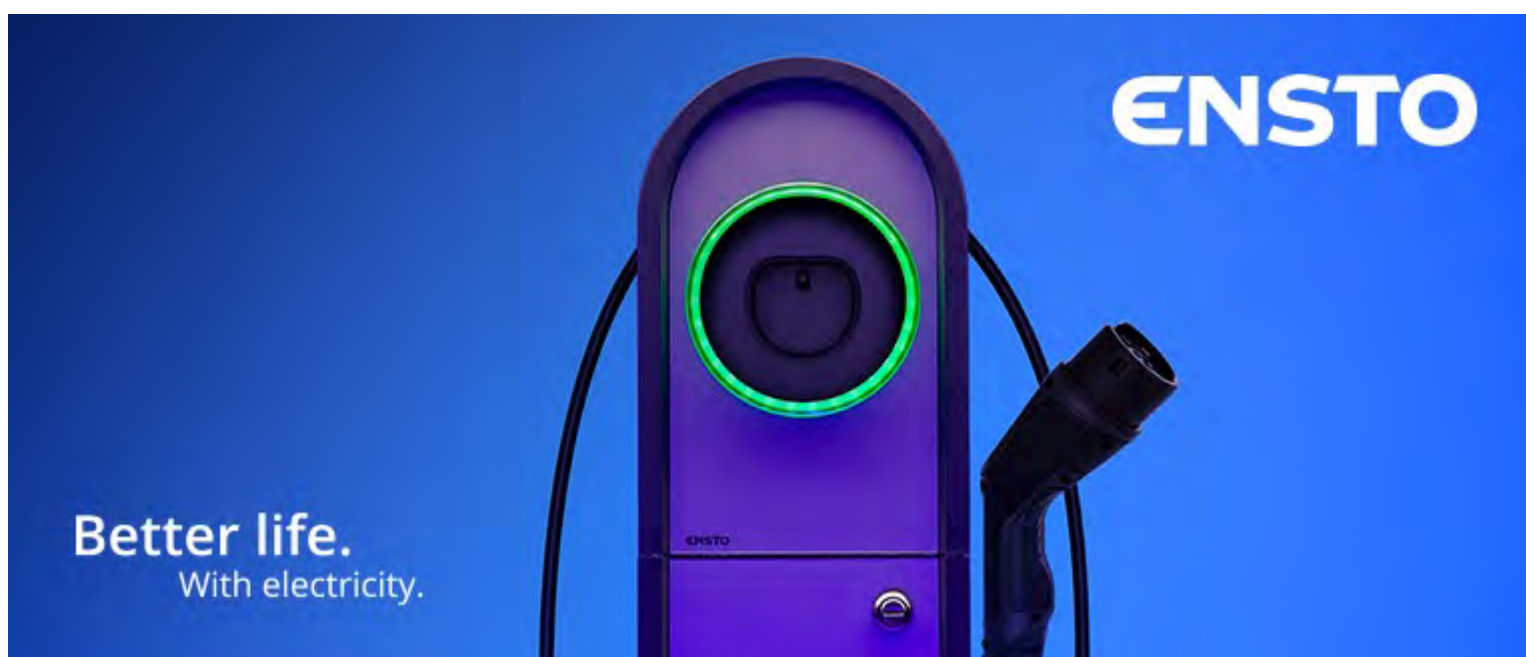
## Super Safe Charging

Ensto One Home is designed according to latest standards concerning EV charging. It's made to last also in harsh weather conditions. Ensto One Home makes sure, that you're ready for your next super electric vehicle driving experience.



# Ensto One Home Specifications

Charging Outlet	Fixed, 5m cable with Type 2 Plug and integrated plug holder
Nominal Value	1x32A, 230 V, 50Hz, AC
Charging Power/ Current	Max. 7.4kW/T2 Socket Charging Current configurable from 6A to 32A
IP Class	IP54
IK Class	IK10
Protection Options	6mA DC Residual Current Monitoring
Control and Communication	Mobile Application (Bluetooth) for adjusting operating current from 6A-16A/32A. Start / Stop charging from app if authorized operating mode is selected.
Operating Temperature	-40°C to +50°C
User Interfaces	Start / Stop charging from app if authorized operating mode is selected. 4—Colour LED Status indication (Ready Charging, Error)
Mounting / Installation	Wall or Pole Mounting
Standards / Requirements	CE, IEC 61851-1





# Wallbox - Alfen Eve Series

A smart charging solution similar to the above. Optimally suited for a private / semi private location.

This unit has a large display screen, improved user interface and new high-tech, reliable hardware platform including RFID access, solid and durable housing, supports charging networks, load balancing and OCPP 1.6

## It's Smart

OCPP 1.6 and dynamic load management are basic features of Alfen Wallbox .

## It's Tough

The structure of the Alfen guarantees durability for both the weather (IP55) and external impacts (IK10).

## It's Flexible

Agile factory commissioning to back-end systems and wide range of customer tailoring's will make Alfen the most suitable selection to customers.



Available in Single and Double

Eve Pro Single - Single Charging / Eve Pro Double - Dual Charging

# Wallbox - Alfen Eve

## Specifications

Charging Outlet	1 or 2 Mode 3 / Type 2 Socket 1 or 2 Mode 3 / Type 1 or Type @ Cables Option: Charging cable fixing by software (cables not included)
Nominal Value	1-ph/3-ph, 230/400VAc, 50Hz
Charging Power/ Current	Max. 22kW/T2 Socket Charging Current configurable from 6A to 32A
IP Class	IP55
IK Class	IK10
Protection Options	6mA DC Residual Current Monitoring
Control and Communication	Standalone/Online GPRS, LAN, ETHERNET OCPP 1.5/ 1.6 IEC 15118 Master / Slave
Operating Temperature	-25°C to +40°C
User Interfaces	Local Authentication by RfId (ISO/IEC 14443A/B ISO/IEC15693) NFC 3—Colour LED Status indication (Ready Charging, Error)
Mounting / Installation	Wall or Pole Mounting
Standards / Requirements	CE, IEC 61851-1 / -22





# Pro - EVF 200 Series

RT Pro Series is the low maintenance and easy-to-use electric vehicle AC charging station for demanding conditions.

It includes charging and service ability for public and semi-public environment with connectivity to serve users, owners and operators!

## It's Smart

OCPP 1.6 and dynamic load management are basic features of RT Pro. With these RT Pro qualifies as smartest EV charger on market.

## It's Tough

The full metal structure of RT Pro guarantees durability for both the weather (IP54) and external impacts (IK10).

## It's Flexible

Agile factory commissioning to back-end systems and wide range of customer tailoring's will make RT Pro the most suitable selection to customers.

## It's Safe

RT Pro built-in residual circuit breaker (RCD-A + DC 6mA RCMB). This guarantees user safety and installation according standards. This also allows installation without extra components in switchboard.



Available in EVF 100, EVF 200 & EVF 300

EVF 100 - Single Charging

EVF 200 - Dual Charging

EVF 300 - Dual Charging with Distribution Cabinet Extension

# PRO EVF - Technical Specifications

Charger Models	EVF 100 (Single Charging), EVF 200 (Dual Charging), EVF 300 (Dual Charging with a distribution cabinet extension)
Charging Outlet	1 or 2 Mode 3 / Type 2 Shutter—Sockets Option: Charging Cable Fixing by Software (Cables Not Included)
Nominal Voltage	1—ph/3-ph, 230 / 400 VAC, 50Hz
Charging Power / Current	Max. 22kW / T2 Socket Charging current configurable from 6A to 32A
IP Class	IP54
IK Class	IK10
Protection Options	MCB (Miniature Circuit Breaker) Residual Current Protection (RCD) Type A Standard
Control & Communication Options	Standalone / Online 2G/3G, LAN OCPP 1.5 / 1.6 IEC15118 Master / Slave
Operation Temperature	-30°C to +50°C
User Interfaces	Local Authentication by RFID (ISO/IEC 14443A/B ISO/IEC 15693) NFC 3-Colour LED status indication (ready, charging, error)
Mounting / Installation	Ground or Wall
Standard / Requirements	CE, IEC 61851-1



# Pro EVF 300

RT Pro EVF 300 - Dual Charging with Distribution Cabinet Extension

EVF300 offers easy grid connection cabinet combined with charging station





# Premium—EVC Series

Premium is the timelessly stylish and advanced solution for fast AC charging of electric vehicles – a combination of elegance and durability.

It includes charging and service ability for public and semi-public environment with connectivity to serve users, owners and operators!

## It's Smart

OCPP 1.6 and dynamic load management are basic features of RT Premium. With these RT Premium qualifies as smartest EV charger on market.

## It's Tough

The full metal structure of RT Premium guarantees durability for both the weather (IP54) and external impacts (IK10).

## It's Safe

RT Premium built-in residual circuit breaker (RCD-A + DC 6mA RCMB). This guarantees user safety and installation according standards. This also allows installation without extra components in switchboard.



Available in EVC 100, EVC 200 & EVC 300

EVC 100 - Single Charging

EVC 200 - Dual Charging

EVC 300 - Dual Charging with Distribution Cabinet Extension

# Premium EVC - Technical Specifications

Charger Models	EVC 100 (Single Charging), EVC 200 (Dual Charging), EVC 300 (Dual Charging with distribution cabinet extension)
Charging Outlet	1 or 2 Mode 3 / Type 2 Sockets 1 or 2 Mode 3 / Type 1 or Type 2 Cables Options: Domestic Socket, Mode 2 charging (max. 3,6kW) Charging Cable fixing by software (cables not included)
Nominal Voltage	1—ph/3-ph, 230 / 400 VAC, 50Hz
Charging Power / Current	Max. 22kW / T2 Socket Charging current configurable from 6A to 32A
IP Class	IP54
IK Class	IK10
Protection Options	MCB (Miniature Circuit Breaker) Residual Current Protection (RCD) Type A Standard , Type B optional
Control & Communication Options	Standalone / Online 2G/3G, LAN OCPP 1.5 / 1.6 IEC15118 Master / Slave
Operation Temperature	-30°C to +50°C
User Interfaces	Local Authentication by RFID (ISO/IEC 14443A/B ISO/IEC 15693) NFC 3-Colour LED status indication (ready, charging, error)
Mounting / Installation	Ground or Wall
Standard / Requirements	CE, IEC 61851-1



# Premium EVC 300

RT Premium EVC 300 - Dual Charging with Distribution Cabinet Extension

EVC 300 offers easy grid connection cabinet combined with charging station





# Media EV Med Series

Smart EV charging with new possibilities

RT Media creates new possibilities for outdoor advertising and information sharing. Smart charging unit combined with big display will be highly visible in streets and parking lots.

## It's Smart

OCPP 1.6 and dynamic load management are basic features of RT Media. With these RT Media qualifies as smartest EV charger on market.

## It's Tough

The structure of RT Media guarantees durability for both the weather (IP54) and external impacts (IK10).

## It's Safe

RT Media built-in residual circuit breaker (RCD-A + DC 6mA RCMB). This guarantees user safety and installation according standards. This also allows installation without extra components in switchboard.

## It Sells

Large media display is great for outdoor advertising and makes a platform for different information sharing and searching. Try to combine commute traffic schedules and EV Charging to make healthier choices in cities and other urban areas.



# EV MED -Technical Specifications

Dimensions	46" (1171 x 2158 x 230mm)   55" (1291 x 2185 x 257mm) with 2 charging points
Enclosure Class	IP 54 / TFT Monitor IP65
Impact Resistance Class	IK10
Operating Temperature	-35°C - + 55°C
Humidity	90% (non - compensating)
Material / Color	Powder painted stainless steel, aluminum and steel construction
Approval, markings	CE, RoHS
Nominal Charging Power	Max 22kW / T2 Socket Charging Power can be configured with software 1,8 - 22kW per charging point
Charging Connection to EV	1 or 2 Mode 3 / Type 2 Option: Charging cable fixing by software (cables not included)
Charging Status Indication	3 Color LED Signal Light (Green, Blue, Red)
Energy Measurement	MID class kWh metering
Nominal Supply	3 x 63A or 2 x 3 x 32A, 230 / 400 VAC, 50Hz
Access Control	Local Authentication by RFID (ISO/IEC 14443A/B ISO/IEC 15693)
Supply Connections	L1, L2, L3, N, PE, Cu 2.5—50mm <sup>2</sup> , Al 6-50mm <sup>2</sup>
Communications with Back-end	3G, 4G, Ethernet, OCPP 1.5/1.6
Standards	IEC 61851-1, EN61439-1, EN61439-3 CE, EN55022, EN50121-4, IEC0950
Screen Type	TFT
Screen Size	46" 16/9 Diagonal, viewing angle: 178°, active area 1018 x 573mm 55" 16/9 Diagonal, viewing angle: 178°, active area 1210 x 680mm
Resolution	Full HD 1920 x 1080 pixel
Brightness and Contrast	2500 nits (cd/m <sup>2</sup> ) 5000:1
Glass	Laminated antireflective front glass
Media Player	TFT Monitor Controller: Q7 Intel BayTrail E3845 Quad Core 1.91GHz, 4GB RAM, Dual Flash 8GB, Optional DVI interface
Screen Connectivity	Ethernet, 2G/3G
Power Consumption	Chargers 230VAC, 50Hz, 60W TFT Display 230 VAC, 50Hz, 520W(max) including 200W heater

# Power —Ultra Fast Charger

Our other EV chargers include a DC Fast Charger, ideal for for convenience stores & filling stations. This unit is the RT Power. It is capable of charging an EV in 15 - 30 minutes.

Modular scalability to charge next generation cars

RT Power offers:

- Simultaneous charging up to four cars e.g. - Two DC charge points – total up to 150 kW DC - CCS up to 100 kW DC
- CHAdeMO up to 62.5 kW DC - Type 2 plug 43 kW, Type 2 socket 22 kW
- Easy to install, operate and service
- Dynamic power management to minimize charge time
- Supports OCPP 1.6
- Different plug configurations available





# Power - Technical Specifications

Dimensions	2079 x 852 x 988mm
Enclosure Class	IP54
Impact Resistance Class	IK10
Operating Temperature	-25°C - + 45°C
Humidity	95% Max, (non-compensating)
Weight	400kg
No. of Charging Points	3 or 4 charging points Combination of 2 DC outlets (CCS and/or CHAdeMO) and 1 or 2 AC outlets Type 2 / Mode 3
Efficient Rectifier	94%
Compliance & Safety	IEC 61851-1
EMC	IEC 61851-21-2, EN 61000-6-1/-2/-4
<b>User Interface</b>	
Display	7" Colour Display
Keypad	5 buttons – backlight
Local Authentication	RFID Reader
Connectivity	Fixed Ethernet, GPRS, 3G Modem
Back Office Interface	OCPP 1.5
AC Connection	L1, L2, L3, N, PE
AC Voltage	400 V RMS (L-L) +/- 10%
Frequency	50/ 60Hz
Current Nominal	312 ARMAS @ 150kW DC + 65 kW AC charge
Powers Factor	0,99
Mains Terminal	Terminal Blocks L1 + L2 + L3 + N + PE
<b>DC Charge Points – CCS / CHAdeMO</b>	
DC Output Voltage Range	170 – 500 V DC
Maximum Charge Current	300 A DC
Maximum Charge Power	150kW DC
Cable / Access Length	3.5m / 2.5m
Protection	Overcurrent circuit breaker, short circuit protection, Overvoltage protection, Low voltage protection, Isolation monitoring, earth monitoring
<b>DC Charge Point CCS</b>	
Compliance	EC 61851-23/ -24, IEC 62196-3, DIN 70121
Rating Cable & Gun	200 A DC / 850 V DC
<b>DC Charge Point CHAdeMO</b>	
Compliance	EC 61851-23/ -24, JEVS G 105, Rev1.0.1 compliance
Rating Cable & Gun	125 A DC / 500 V DC
<b>AC Charge Points</b>	
Compliance	IEC 61851-22
AC Voltage	400 V RMS (L-L) ±10%
AC Plug 43kW Charge Point	IEC 62196-2 Mode 3 / Type 2
AC Socket 22kW Charge Point	IEC 62196-2 Mode 3 / Type 2
Nominal AC Charge	400V RMS
Maximum Charge Current / Power	3 x 63A RMS @ 42kW point
Cable / Access Length	3.5mm / 2.5mm
Protections	RCD Type B

# Veefil—RT-Fast Charger

The Veefil-RT by Tritium is a reliable and robust electric vehicle fast charger with an attractive design that is easy to own and operate.

Its patented liquid-cooling system ensures maximum product life with minimum maintenance. The small footprint and lightweight design of the Veefil facilitates a wide choice of location options and easy installation.

## Tritium Offers

Liquid Cooling

A slim, compact and stylish design

Reduced install cost

Increased Reliability

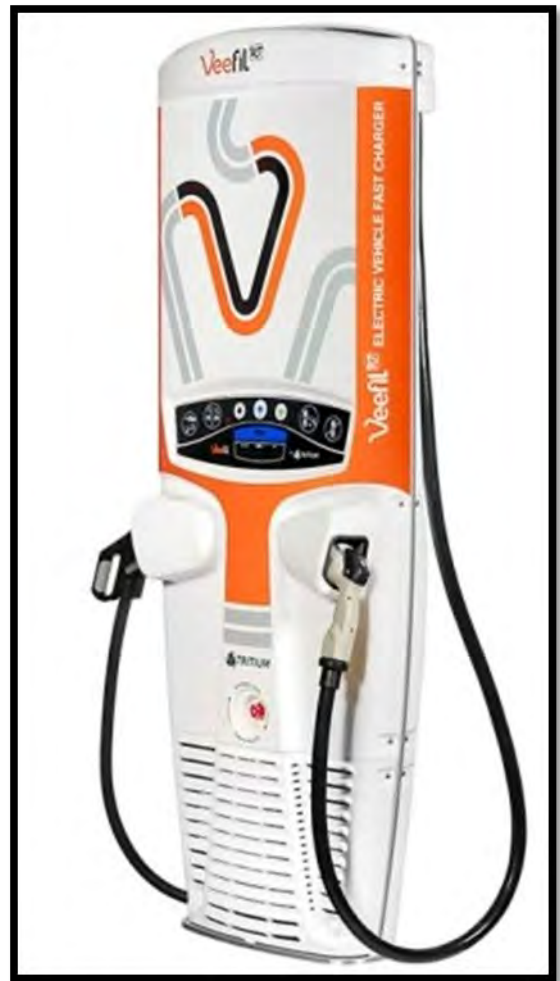
Durable UV Resistant Exterior

Low Maintenance

Supports OCPP 1.6 & OCPP Integration

Awarded for its design, innovation & sustainability.

Veefil-RT is the electric fast charger for public



# Veefil - Technical Specifications

Connectors	CHadeMO and CCS (Type 1 or 2)
Power	Up to 50kW
Supply Input	380 - 480 V AC 3ø
Supply Frequency	50-60 Hz
IP Rating	IP65
Efficiency	>92%
Power Factor	0.99
Operating Temperature	-35°C to 50°C
Network Connection	3G and Gigabit Ethernet
RFID	MIFARE ISO/IEC14443A/B, ISO/IEC15693, ISO/IEC18000-3, FeliCa, NFC, EMV 2.0
Communication Protocol	OCPP 1.5 and 1.6J
Weight	165 kg
Electrical Protection	Short circuit; Over voltage: RCD
Dimensions	2000(H) x 750(W) x 330(D) mm
Certification	CE



# Delta DC Wallbox

Delta's dual output DC Wallbox advances EV compatibility at public charging sites.

It's wall mounted and modular design ensures cost efficient installation and lifecycle maintenance. It also features built-in network connectivity for authentication and remote control applications.

## DC Wallbox Offers

CCS / CHAdeMO dual charging points

Max 94% Power efficiency

RFID card reader for user authentication

Network Connectivity (OCPP 1.5S & 1.6J)

IP55 Protection & IK08 Vandal Proof casing





# DC Wallbox—Technical Specifications

<b>Power Input</b>	
Input Rating	380—415 Vac; 50/60Hz; Three Phase / L1, L2, L3, N, PE; 50a max 230 Vac; 50/60 Hz; Three-phase / L1, L2, L3, PE, 90Amax
Grid Type	Support TN, TT and IT Grid Power
Power Factor	> 0.98
Current THD	Compliant with IEC 61000-3-12
Efficiency	94% at nominal output power
Standby Consumption	<20W
<b>Power Output</b>	
DC Output 1	IEC CCS DC Level 2, 50 –500Vdc, 60A max., 25kW max.
DC Output 2	CHAdemo, 50 –500Vdc, 60a max., 25kW max.
<b>Protection</b>	Overcurrent, under voltage, over voltage, surge protection, short circuit, over temperature, ground fault
<b>User Interface and Control</b>	
Display	2.7" OLED screen
Support Language	English, French, German, Spanish (other language available upon request)
Push Buttons	Multi-functional buttons (LED Light: Orange, Blue) / Emergency stop button (Red)
User Authentication	ISO/IEC 14443 Type A/B RFID
<b>Communication</b>	
Connectivity	OCPP 1.5S, 1.6J
Network Interface	Ethernet, Cellular
<b>Environment</b>	
Operating Temperature	-30°C to +50°C (-22°F to +122°F) Derating from +50°C to +60°C (+122°F to +140°F)
Storage Temperature	-40°C to +85°C (-40°F to +185°F)
Humidity	< 95% relative humidity, non-condensing
Altitude	Up to 2, 000m (6,500ft.)
<b>Mechanical Design</b>	
Ingress Protection	IP55
Enclosure Protection	IK08
Cooling	Forced Air
Charging Cable Length	4m (13ft. Standard) / 7m (23ft. Optional for IEC CCS DC)
Dimensions (W x H x D) / Weight	680 x 430 x 230 mm (27 x 17 x 9 inch) / 43kg (95lb), excluding plug and cable
Mounting	Wall mount or optional stand
<b>Regulation</b>	
Certificate	CE
Compliance	CHAdemo / IEC 61851-1 / IEC 61851-23

# Randridge Technologies

## Management Package

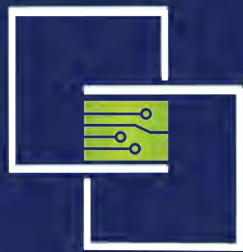
### **What it offers Customers:**

- Find an available charging station, reserve a charge point and start charging
- Start and Stop Charging via the Web or Mobile App
- Pay as you go (PAYG) usage or create a prepaid account with no registration fees. Customers will only pay for the connection and kWh used.
- Manage their accounts, receipts and usage
- Payments can be made by bank transfer or credit/debit card
- Prepaid / Registered Customer or PAYG customers will be able to begin charging via the webapp or mobile application—Stop N top
- On the mobile app, customers will be able to locate and reserve a charge point, check the price per kW etc. Customers will also be able to see their charging history and how much they were charged

### **What it offers Charge Point owners:**

- Our management system allows us to monitor and manage customer accounts such as billing information, RFID cards and contact details.
- The system allows us to follow up on any problems / issues that might occur while charging is taking place & allows us to sort it out remotely.
- Visualised reports give a comprehensive overview of your charging business.
- Flexible charging schemes can be set up to suit your wants
  - By Default, per device, per group
  - Per kW, per minute and per reservation minute
  - Per time and date / weekday

Charging units can be programmed to suit the ESB E-car Interoperability, where customers using the ESB-E Cards can also make use of the RT charge points.



# **Randridge Technologies**

Powering our clean future

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