votexa

ROAD CHARGER

AC E-Mobility Charging Solution

Ability to charge all things Electric

Emergency Power Supply

EV

POWERED BY :
ARC EUROPE & CLS

votexa™ ROAD CHARGER
Key Components

votexa

- Ability to charge all things Electric (EV's, E-Bikes, Mobility Scooters, Electric Forklifts, Electrical Appliances)
- Charging control unit and 3.8kW battery pack separate
- Provide Emergency Power
- Delivers 5 kilometres (3.1 miles) of range in 10 minutes
- Able to deliver 50 minutes discharge time prior to needing a recharge
- LiFePO4 battery pack
- Ability to charge LiFePO4 battery packs in service vehicle
- EVSE delivery and BEV charge control system
- Built-in safety features
- Operational in a wide temperature range -20^{0}C to + 50^{0}C
- 220 Volt (optional 110 Volt) domestic outlet
- Ability to charge via mains power
- Containing Lithium battery cells, control systems (BMS), EVSE system, switching controls, chargers for the HV pack etc. and delivery cable outlet ports.
- Estimated total weight at 67kg (148lb)
- Charging control unit footprint – 600L X 550W X 275H
    - 27kg
- Battery pack footprint – 400L X 300W X 245H
    - 40kg

- The system will deliver an output to the BEV of 15 amps to suit all popular EV's including Renault Zoe, Tesla and BMW i3.
- The votexa™ ROAD CHARGER is recharged automatically as the rescue vehicle is driving between tasks. The power for this recharge comes directly from the rescue vehicle alternator and battery system. Estimated 6-hour full recharge time.
- The high voltage LiFePO4 24-volt battery pack can be charged from an external mains
- Inside the votexa™ ROAD CHARGER is a Lithium Charge Profile BC/DC converter
- A built in Battery Management System (BMS) will monitor each battery cell and through the master BMS controller, these cells will be either charged or discharged to maintain a consistent cell voltage. The BMS will also monitor the cell voltage for over and under voltage, as well as thermal runaway.
- As the external power supply is a PSU (not a charger), there is no operational effect regarding the start-up phase. The charging of the capacitors inside the BC/DC converter is very fast, with several internal safety checks conducted by the BC/DC charger prior to delivering an output voltage or current. The integrity checks cover off all the connections to the 24-volt battery pack State of Charge, State of Health and temperature of the battery pack

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