

Mobile Electric Vehicle Charger – Features

The Mobile Level 1 and Level 2 Electric Vehicle (EV) charger is designed to allow convenient access to an EV that has a fully depleted high voltage traction battery and is disabled at roadside or in a location where there is no fixed site EV charge facility.

The trailer is deliberately compact in size and is designed for towing behind a small vehicle – maybe an EV – or a Motorcycle, thus delivering improved access to a broken down EV due to maneuverability in dense traffic areas.

The Mobile EV Charger is equipped with two EV Charge facilities as follows:

- **Level 1** – 240/ 110 volt AC and 15 amp (3.3Kw) maximum. Designed for those EV's that can only take the 15 or 10 amp rating.
- **Level 2** – 240 volt AC and 30 amps (6.6Kw) nominal. Designed for EV's that are fully enabled to international Level 2 mode 3 capability.



Designed with Emergency Roadside Assistance in mind, the Mobile EV Charge trailer can deliver to a stranded Electric Vehicle an instant charge to allow in just a short time sufficient High Voltage battery charge to enable the EV to be driven to the nearest fixed EV Charge Station, for complete re-charge.

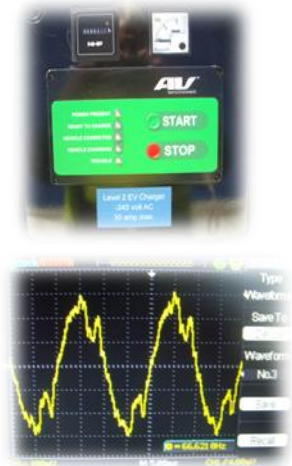
State of the art engineering:

- Low emission rated ICE from Honda – ULP or LPG options available
- Specially designed AC Alternator from Italy
- Proprietary engineered electronic switchgear
- Ruggedised EV Charge Control Computer from USA – talks to the EV to determine the rate of charge voltage and power to be delivered.
- Australian made Classic trailer equipped with hydraulic disc brakes, RTA compliant hazard flashers and auto safety features.
- SAE J1772 International standard connector from Mobile EV Charger to EV
- MEN Grounding design for maximum mobile and remote electrical safety

- All mandatory PPE supplied with Mobile EV Charger.
- Full operational instrumentation for monitoring the charge process.
- A skid mounted version has also been developed. Ideal for truck bed mounting or static locations.

Further Development:

Club Assist is currently developing the MK3 version of the Mobile EV Charge trailer – to incorporate a full Lithium-ion HV battery pack for power delivery, thus eliminating the ICE altogether.



Mobile EV Charge Trailer Designed, Engineered and manufactured in Adelaide by Club Assist Pty. Ltd.

For more information contact;



Robert Gell *AM SAE-A, IAME, AFAMI*
Product and Technical Development
Tel: +61 407 726 106