

## **Portable EV charger**

The EV charger will be capable to provide temporary effective power to electric cars, if and when, they run out of power.

### **General Information**

In the view of electric vehicle market development, the need for a transportable energy source is important and necessary, especially at Ro-Ro Terminal operations.

The EV Charger converts AC voltage to DC voltage to direct charge the Electric Vehicle batteries.

The most of the EV's are equipped with standard plug types as: CHAdeMO, and CCS.

### **General characteristics of Portable EV charger**

- 1) The EV Charger must be in compliance with CHAdeMO, and CCS plug types.
- 2) The EV Charger must have been constructed according the latest safety & quality standards.
- 3) The EV Charger must have been designed for rough environment and outdoor-use.
- 4) The operation of the device must be easy and user-friendly.
- 5) The EV Charger must be covered by warranty.

### **Minimum requirements for the Portable EV charger**

The main characteristics of EV Charger will be:

- 1) Portable
- 2) Power: approx. 10KW (1pc) and approx. 20KW (1pc)
- 3) Voltage: 380/220 – 3phase/2phase respectively
- 4) AC input / DC output
- 5) Protection grade: min IP31
- 6) Operating temperature: from -25°C to + 50 °C
- 7) Min Protection: Short circuit / Over temperature / Over voltage / Under voltage
- 8) Cooling: forced ventilation
- 9) Display: LED
- 10) DC Plugs: CHAdeMO, CCS