

# Variablegrid load-controlled charging station

## Model LCCS2-R12

### Description

- Unique technology that shares power with all connected appliances including EV's, to maximize charging performance on shared circuits or panels, resulting in reduced infrastructure costs and maximal current-bandwidth.
- Applicable to indoor or outdoor, private homes, condos, fleets, workplace charging, street light utilization or public parking.
- Utilizes local server-based secure network, free of remote communication charges and hazards.

### Features

- Capable of waiting for sufficient available power rather than requiring a constant minimum current flow.
- Metered usage report available via temporary web interface for billing or reporting.
- Intelligent power management to ensure all users are fully charged overnight with minimal required infrastructure.
- Power-sharing efficiency approaches 100% as available power decreases. This results in lower distribution transformer requirements and in lower building demand factors.
- RFID authentication option using tags you likely already own.
- Unique scalability with soft limits – excessive additional stations beyond design limits merely degrade average performance. Multi-point systems can scale incrementally one unit at a time (no need for incremental groups.)

### Material specifications

- Weight 17 lbs inc. cabling
- Length 13.5"
- Width 10"
- Height 7.5"
- Horizontal space between mounting holes 9"
- Vertical space between mounting holes 12.5"
- Mounting holes: 1/4"
- 16' EVSE cable assembly, 25' length option
- 3' NEMA 6-50 power cord (CA), 1' cord (US)
- Operating temperature -30°C to +40°C

### Electrical specifications

- Service power : 208-240V 60Hz
- Max. delivery current : 30A continuous
- Actual delivery current: variable, down to 0A depending on external loads.
- Automatic monitoring of : input and output ground continuity, ground fault current, over-current, communication links and surge suppression reliability.
- Dual modular redundant (DMR) personnel safety protection features
- Surge suppression circuitry with failure warning indicator for harsh electrical environments.
- OCPP optional access with core functionality, including RFID reader for ISO 14443A Mifare cards.
- Local sensor/server command and control interface over multiple carrier options, supported by HTTPS-level encryption.
- Remote operator control option with core OCPP functions.