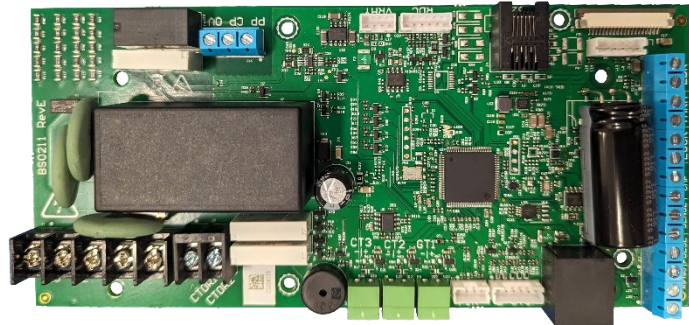




Electric Vehicle Supply Equipment AC Charge Controller

EEL is a BS EN IEC61851-1:2019 EVSE AC charge controller



EEL is a fully-compliant 61851 AC charge controller that has all the necessary interfaces for any single or 3-phase AC charge solution.

EEL requires very few external components to provide a complete off-the-shelf charging solution. Simply add a 3-pole contactor any 6mA-RDC-DD to EEL for a single-phase AC charger. Smart charge capabilities can be added using MantaRay to comply with international standards including UK OLEV requirements.

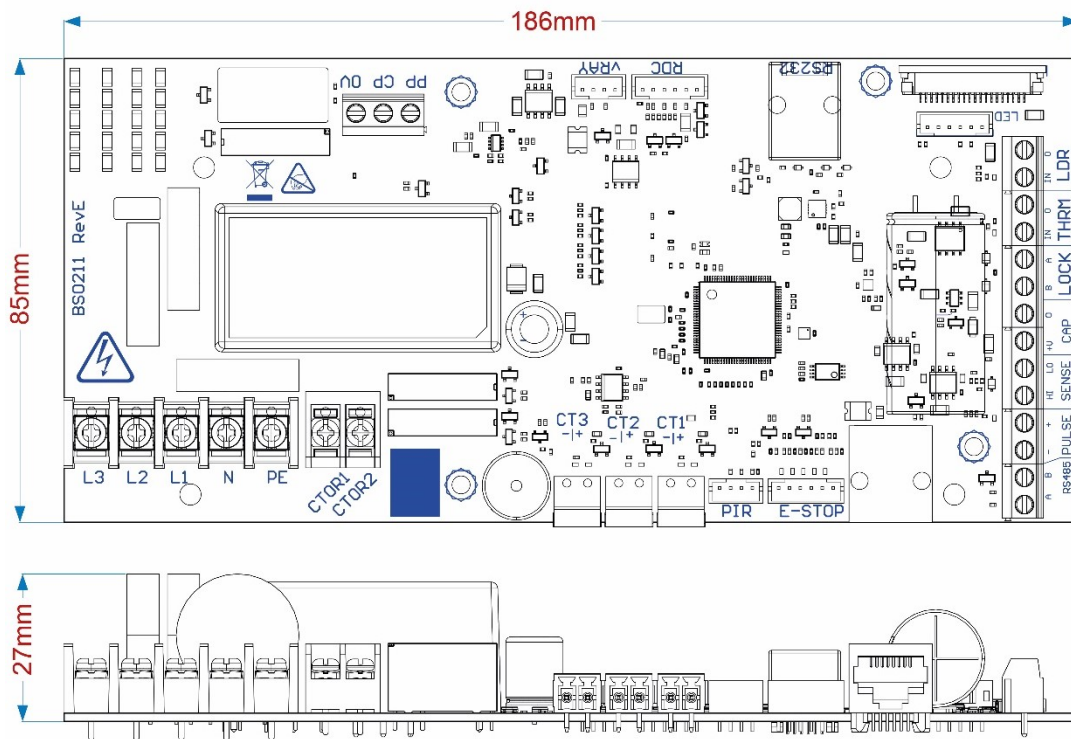
EEL has plenty of flexible features to address all charger requirements. White LED illumination, RGB status LEDs and CT clamps can all be added for metering; PIR for motion; light sensors giving dimming to control status and white illumination LEDs; RFID reader interface for charge cards; RS485 for MID approved meters and a set of general purpose I/Os.

Applications for EEL include simple single- or dual-socket AC chargers for residential installations, through to large scale commercial or fleet installations.

EEL has a number of companion boards allowing fully customisable charging solutions. Software modifications are available on request.



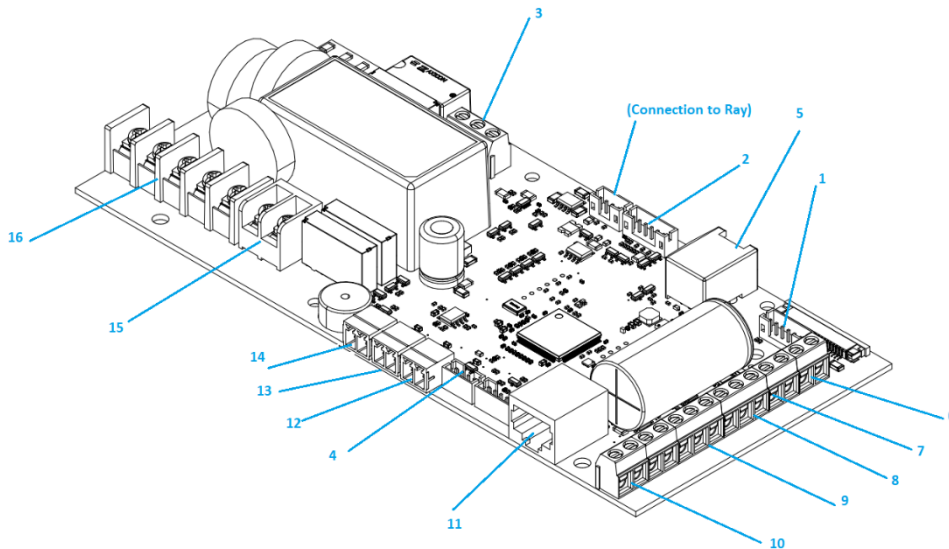
Physical Dimensions





Connectivity

Connector	Description
1	RGB and White LED
2	6mA RDC-DD
3	CP and PP
4	PIR
5	RS232 with 3.3V output (1W) for RFID
6	External Light sensor
7	External Temperature sensor
8	Lock actuator Motor for EV socket
9	Lock actuator sensor for EV socket
10	RS485 for mid meter
11	RS485 for digital CT clamps with 12V output(2W)
12	CT Clamp 1
13	CT Clamp 2
14	CT Clamp 3
15	110 to 240V AC input terminal block
16	Output to power contactor





Electric Vehicle Supply Equipment AC Charge Controller

Supply Voltage	85 – 264VAC
Power Consumption	10W peak
Communication	RS485 control port
Sound	Piezo buzzer
Input/Output	3 CT clamp inputs 5 x GPIOs RGB status LED port White LED illumination port External Thermistor External Light sensor Onboard Temperature Motion detection (Accelerometer) RS485 for External CT clamp module Broken Earth detector AC contactor control CP and PP signals RS232 interface for RFID reader
kWh-meter interface	Read out of kWh-meters through RS485 connection
Workable temperature	-25 °C till +70 °C, 5% till 95%, non-condensing
Temperature Control	On-board temperature sensor on PCB
Updates	Firmware update over control port