

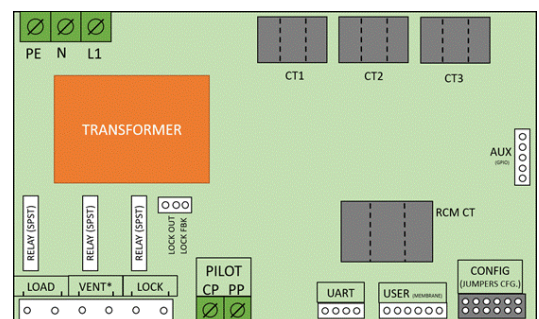


## DWEVCC-01 - EV Charge Controller

The Deltrix Electric Vehicle Charge Controller (DWEVCC-01) is a control board to provide charge control function for electric vehicle charging point. The EVCC Board provides the basic functions required in any EVSE charging station: Integrated power supply, Control Pilot function and onboard 6mA DC current detection (RCM).

## Key Features

- Onboard SPST relays for controlling:
  - External contactor to provide supply to the EV
  - External Ventilation activation/deactivation.
  - External solenoid based EV plug locking
- Onboard port for motorized EV plug locking system (+/-12V output and feedback input)
- Connectors to the control pilot (CP) lines
- Connectors for Remote enable/disable of the charging point (hardware authentication)
- UART for communications and 5V DC reference on one single connector
- Dedicated pins for User Control panel LEDs and Buttons (to indicate status of charge, enable EV charging, resetting, etc.)
- Hardware based EVCC configuration via jumpers
- Onboard charge current monitor for up to 3 phases
- User configurable GPIO lines
- Fully compliant with IEC61851 and IEC 62955
- Load Balancing
- Ability to read the current being consumed by the car
- Ability to send UART commands to the EVCC Controller
- Ability to set the maximum current
- Ability to detect the cable capacity from the EVCC
- Remote Firmware Updates supported



## Supply Conditions

The EV charger control board is intended to be supplied from 230VAC ( $\pm 15\%$ ). Performance may be compromised if the supply voltage is outside these limits.

## Fault Operation & Auto Reset

When a residual fault current that exceeds the rated AC or DC levels is detected, the controller will switch to the fault state within the specified response times. The controller will disconnect the supply contactor to the EV keeping it in a safe state.

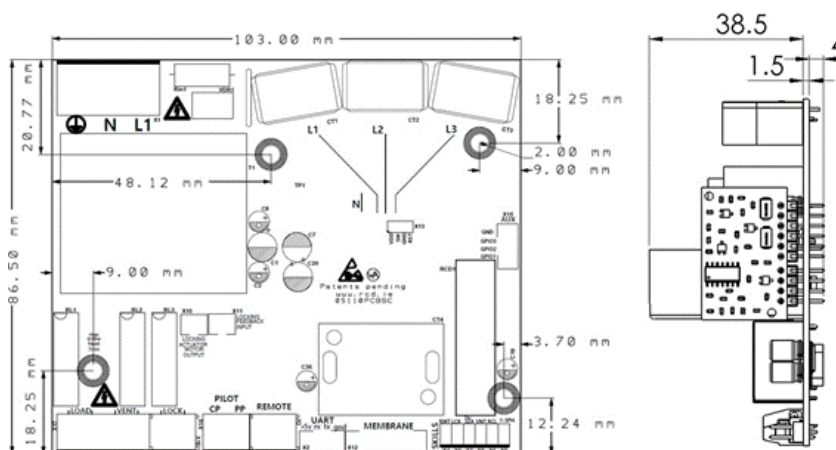
## Technical Specifications

Mode 3 charger standard	IEC61851
Residual Current Device Standard	IEC62955
Rated Residual Operating Current ( $I_{\Delta n}$ )	6mA DC
Rated Non-operating Residual Current Limits ( $I_{\Delta no}$ )	3mA DC
Rated Charging Current	16A / 32A
Rated Supply Voltage	230V AC
Supply Voltage Range	195VAC – 265VAC, 50Hz
Integrated relays capability	250VAC/30VDC - 3A

## Pin Out

L1, L2, L3, N	Supply Phases and Neutral
C1, C2	EV Load contactor coil connection
V1, V2	Ventilation contactor coil connection
PE	Fault Signal Output (Active High Open Drain)
CP	Control Pilot Signal
PP	Pilot Proximity Signal
EN1, EN2	Remote Enable Signal
O1, O2	Output to EV outlet locking mechanism
CT1, CT2, CT3	Charging current measurement transformers per phase

## Physical Dimensions



**Part Number:** DWEVCC-01

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