

DCC-10 Demand charge controller for electric vehicle

ENGLISH

The DCC-10 manufactured by Thermolec is an Energy Management System specially designed to allow the connection of an EV Charger to a panel that is at full capacity and would otherwise need a service upgrade.

OPERATION

- Real-time reading of the total power consumption of the home's electrical panel;
- Detects when total power consumption exceeds 80% of main circuit breaker capacity and temporarily de-energize the EV Charger;
- Automatically re-energize the EV Charger when the total power consumption of the electrical panel is less than 80% of its capacity for more than 15 minutes.

DETAILS

- Require one double pole breaker slot available in a panel.
- Do not affect load calculation of a panel.
- Automatic billing of electricity by the utility (for condo installation).
- Can be wall or ceiling mounted.
- Included: Charge Controller, EV Charger Breaker (Max 60A) & Split Core current transformers (CT).

Models	Breaker EV charger	Main power supply							
		60A	70A	80A	90A	100A	125A	150A	200A
DCC-10-30A	30A	✓	✓	✓	✓	✓	✓	✓	✓
DCC-10-40A	40A	✗	✗	✓	✓	✓	✓	✓	✓
DCC-10-50A	50A	✗	✗	✗	✗	✓	✓	✓	✓
DCC-10-60A	60A	✗	✗	✗	✗	✗	✓	✓	✓

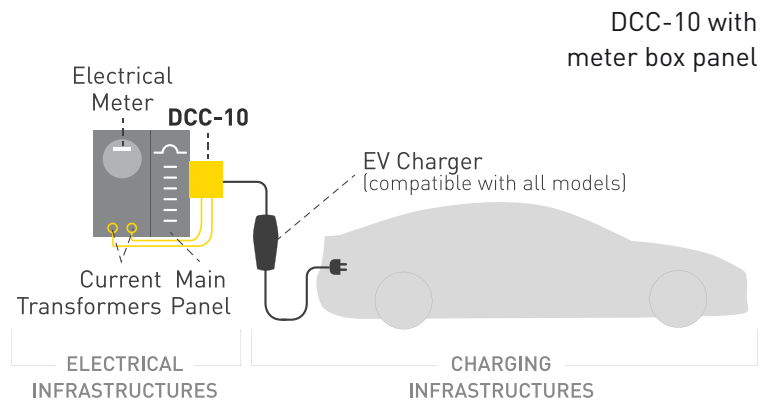
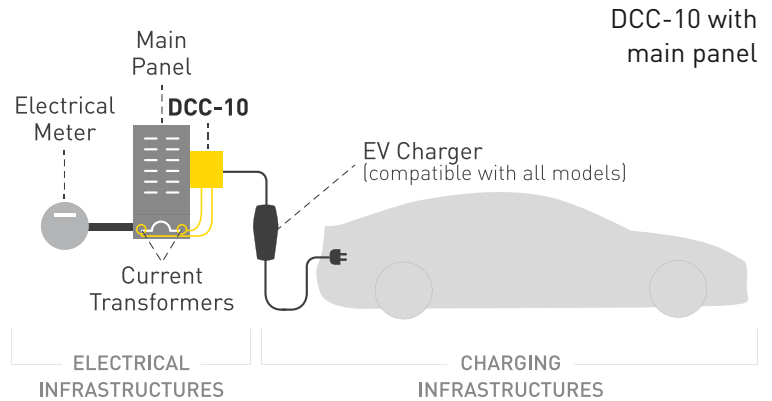
Voltage and wiring	240/208V, single phase: L1, L2, ground.
Dimensions* (H" x W" x D")	11.0" x 11.0" x 4.5"
Frequency	50 to 60 Hz
Total weight*	12 lb (5 kg)
Operating temperature	32°F to 113°F (0°C to 45°C)
Storage temperature	-4°F to 158°F (-20°C to 70°C)

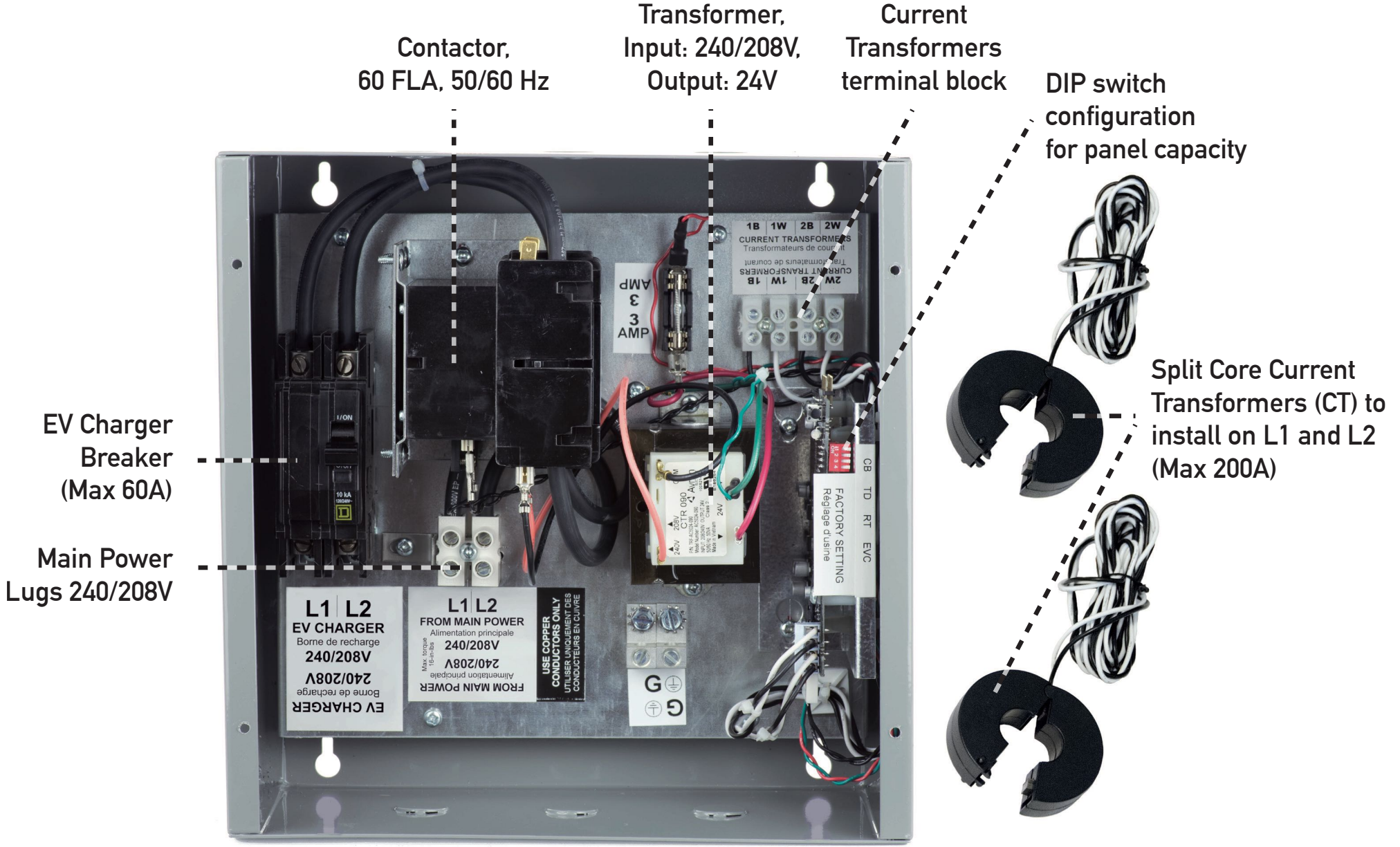
* Approximative and can change without notice.

V6



INSTALLATION EXAMPLE





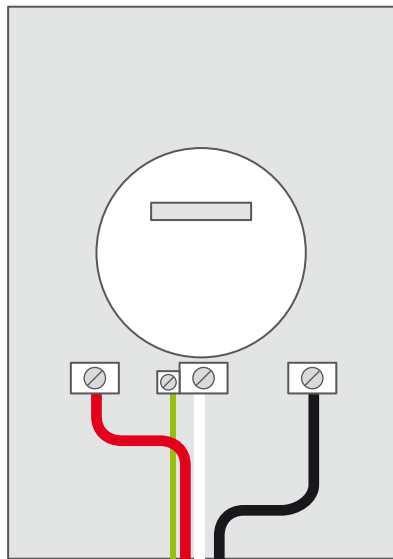
DCC-10

with

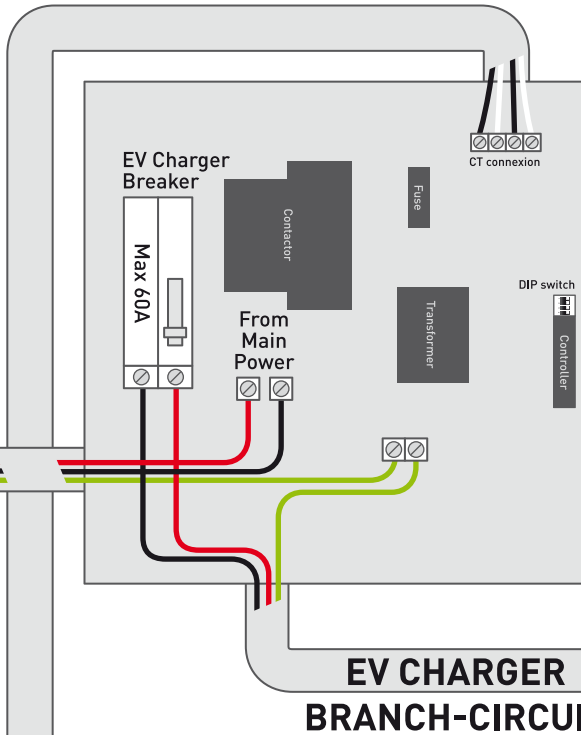
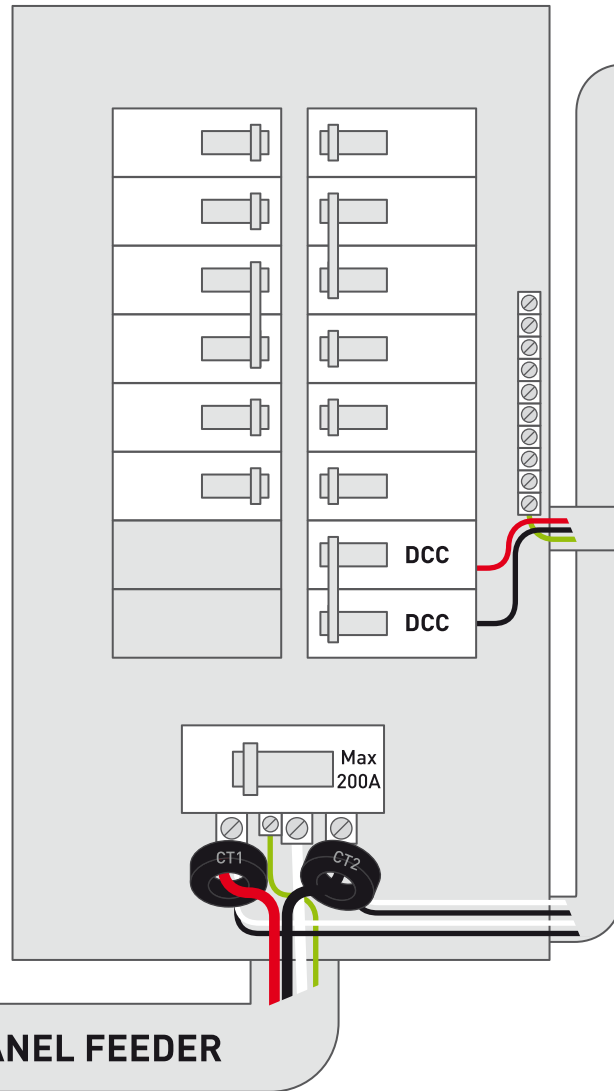
MAIN PANEL

MAIN PANEL

METER 120/240V



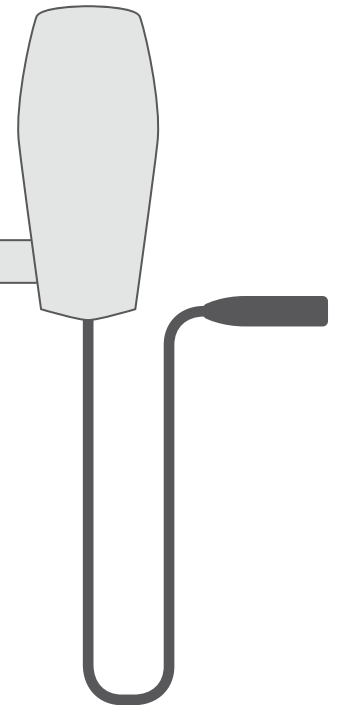
MAIN PANEL FEEDER



**EV CHARGER
BRANCH-CIRCUIT**

DCC-10

**CHARGE
CONTROLLER
240/208V,
MAX 200A**

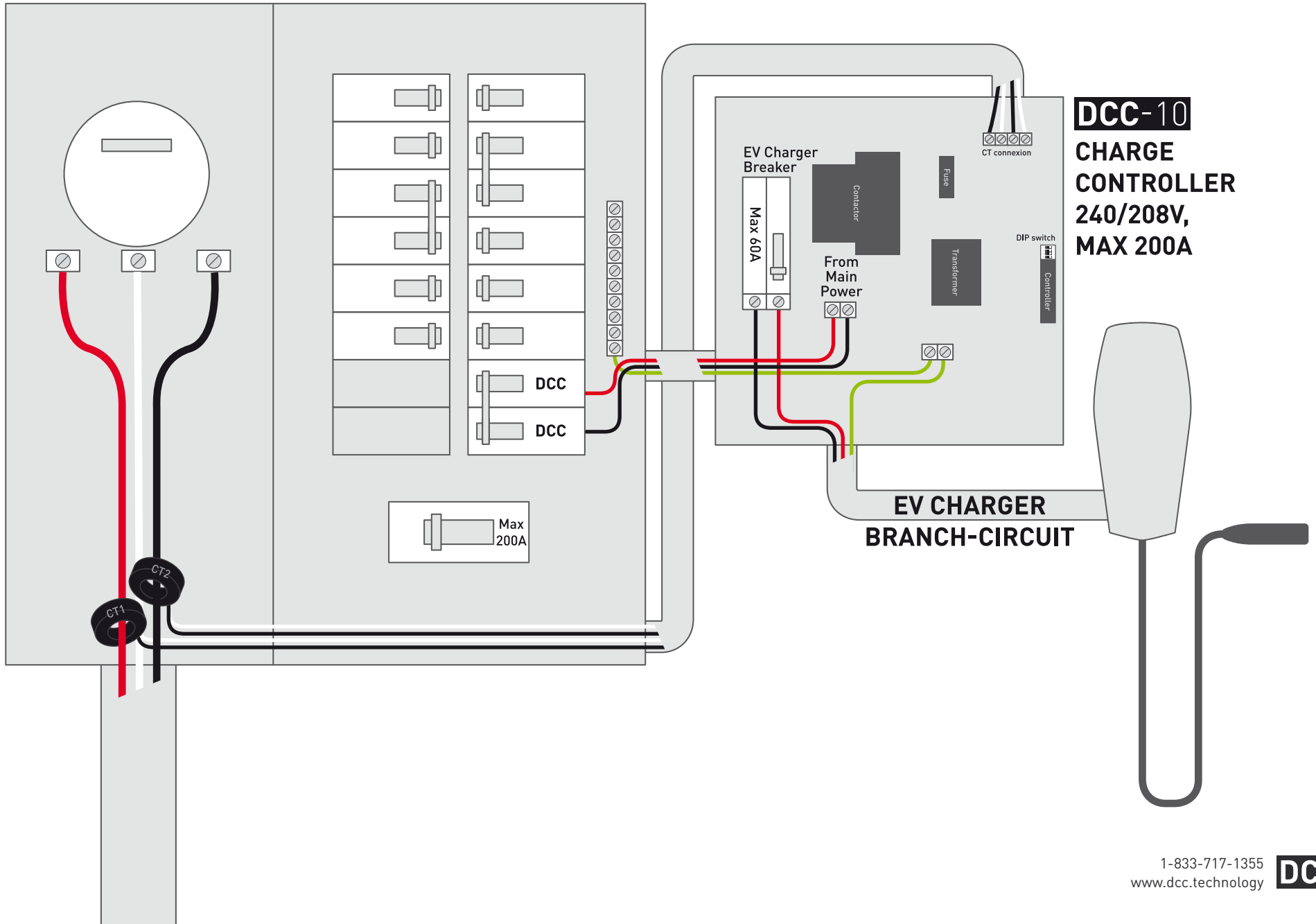


DCC-10

with

METER BOX PANEL

METER BOX PANEL 120/240V



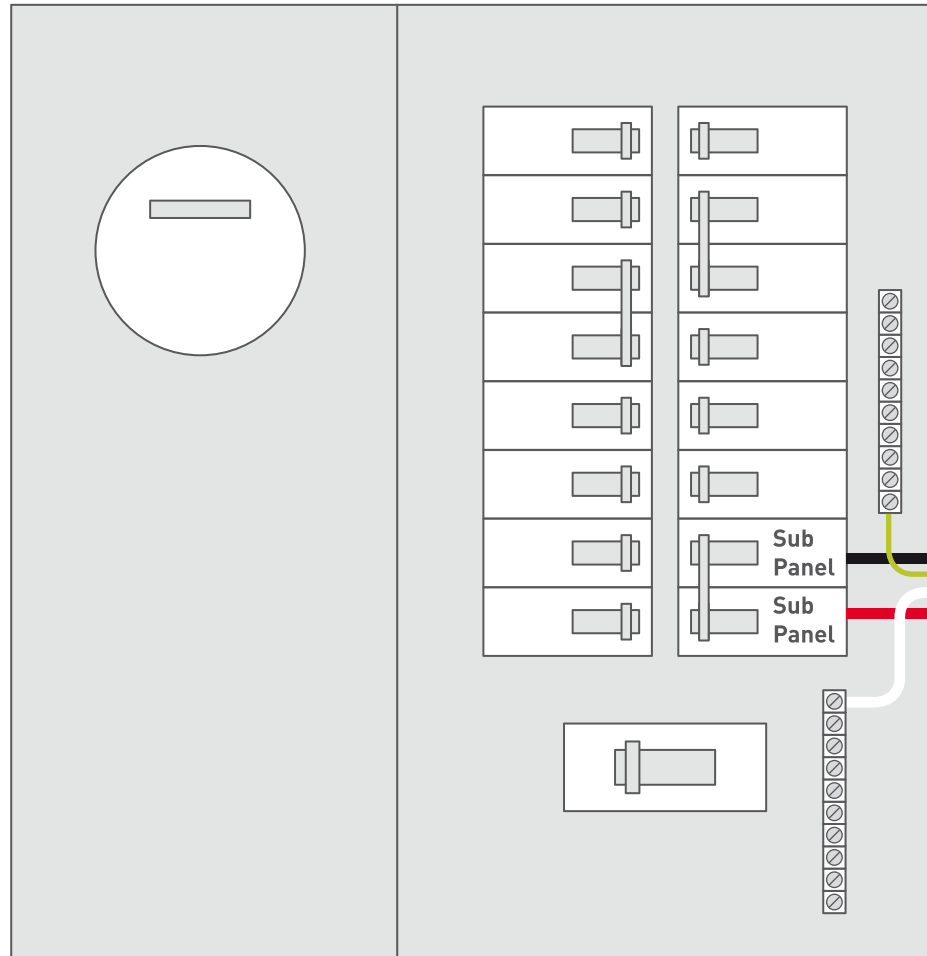
DCC-10

**CHARGE
CONTROLLER
240/208V,
MAX 200A**

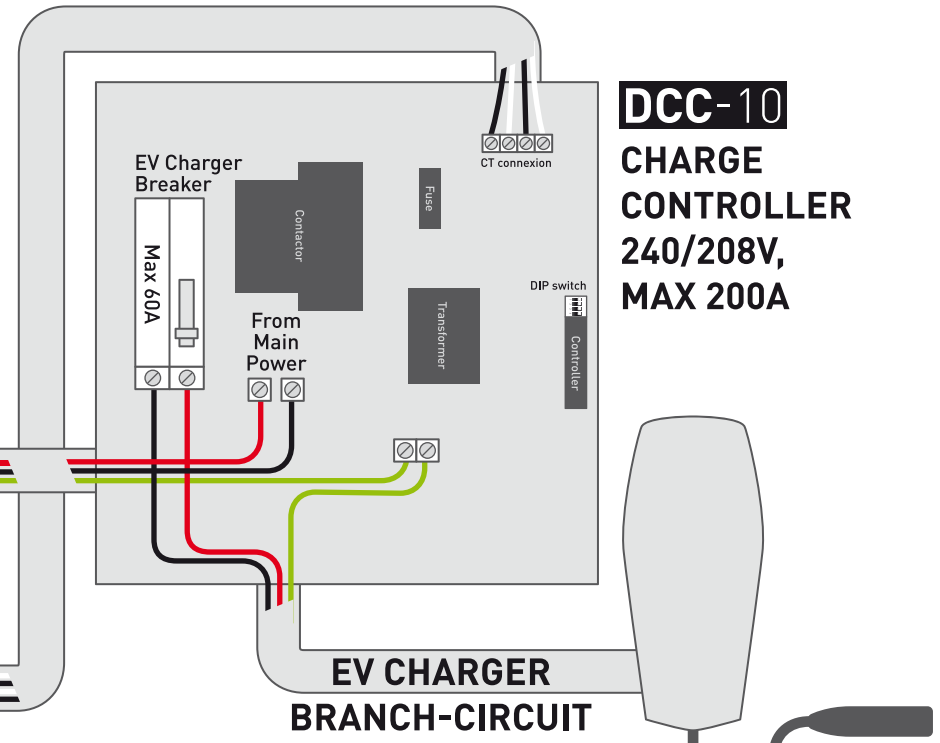
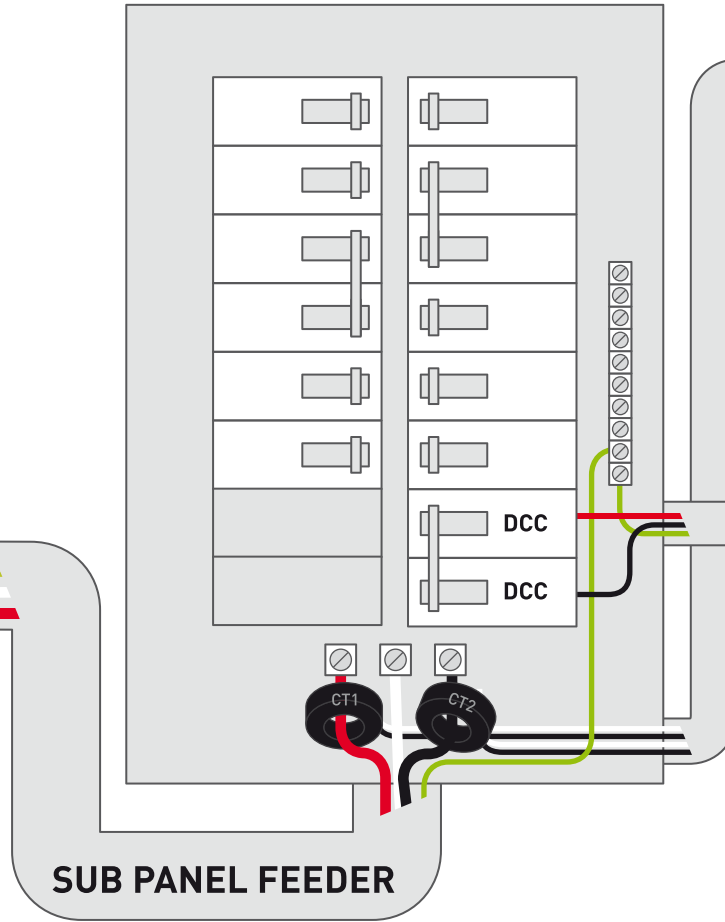
**EV CHARGER
BRANCH-CIRCUIT**

DCC-10 with SUB PANEL

METER BOX PANEL 120/240V



SUB PANEL



DCC-10
CHARGE
CONTROLLER
240/208V,
MAX 200A