

ELECTRIC VEHICLE ENERGY MANAGEMENT SYSTEM

DCC-10



UL US CS US
PAT. NO. 10.486.539

The DCC-10 is a patented Electric Vehicle Energy Management System (EVEMS) that allows a charger to be connected directly to an electrical panel which would otherwise not have sufficient capacity to allow the connection.

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-energizes 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.
- Requires one double pole breaker slot available in a panel.

FEATURES

- Does not affect load calculation of a panel.
- Automatic billing of electricity by the utility.
- Can be wall or ceiling mounted.
- NEMA 3R enclosure for outdoor and indoor installation.
- Possibility to receive and transmit load shedding instructions from an external energy management system via a dry contact input and output.

INCLUDED

- Electric Vehicle Energy Management System
- EV Charger Breaker (Max 60A)
- 2 Split Core Current Transformers (CT)

MODELS	BREAKER	MAIN POWER SUPPLY								
	*** EV charger	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 AC single phase: L1, L2, Neutral, Ground.								
Frequency		50 to 60 Hz								
Operation temperature		-22°F to 113°F (-30°C to 45°C)								
Wire Gauge Size		up to 250 kcmil (MCM) (CU/AL)**								
Max torque		Relay terminals: 40 in-lbf Breaker terminals: 45 in-lbf								
Dimensions* (H" x W" x D")		Total weight*								
NEMA 3R enclosure	11" x 10" x 5"	9 lb (4,08 kg)								

*Approximate and can change without notice.

** See the Connecting aluminum conductors section in the installation manual

*** Not limited to compatibility with electric vehicle charging stations, this product can be installed with resistive loads of up to 60A and inductive loads of up to 40A

**** See dip switch programming step in manual for more details.

V5

*Approximative and can change without notice.

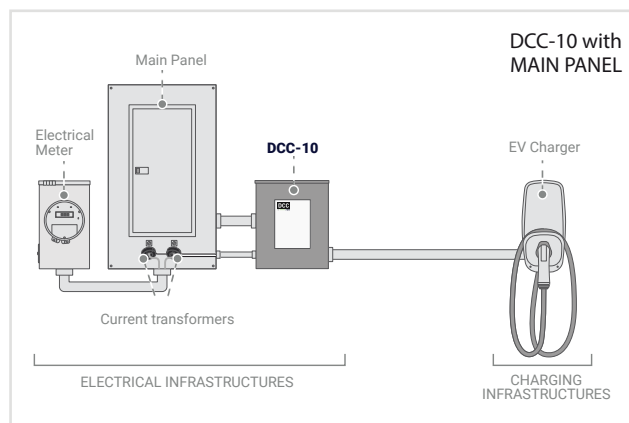
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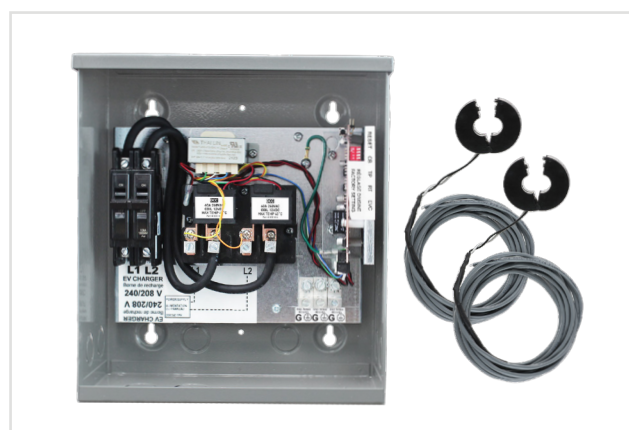
**** See dip switch programming step in manual for more details.

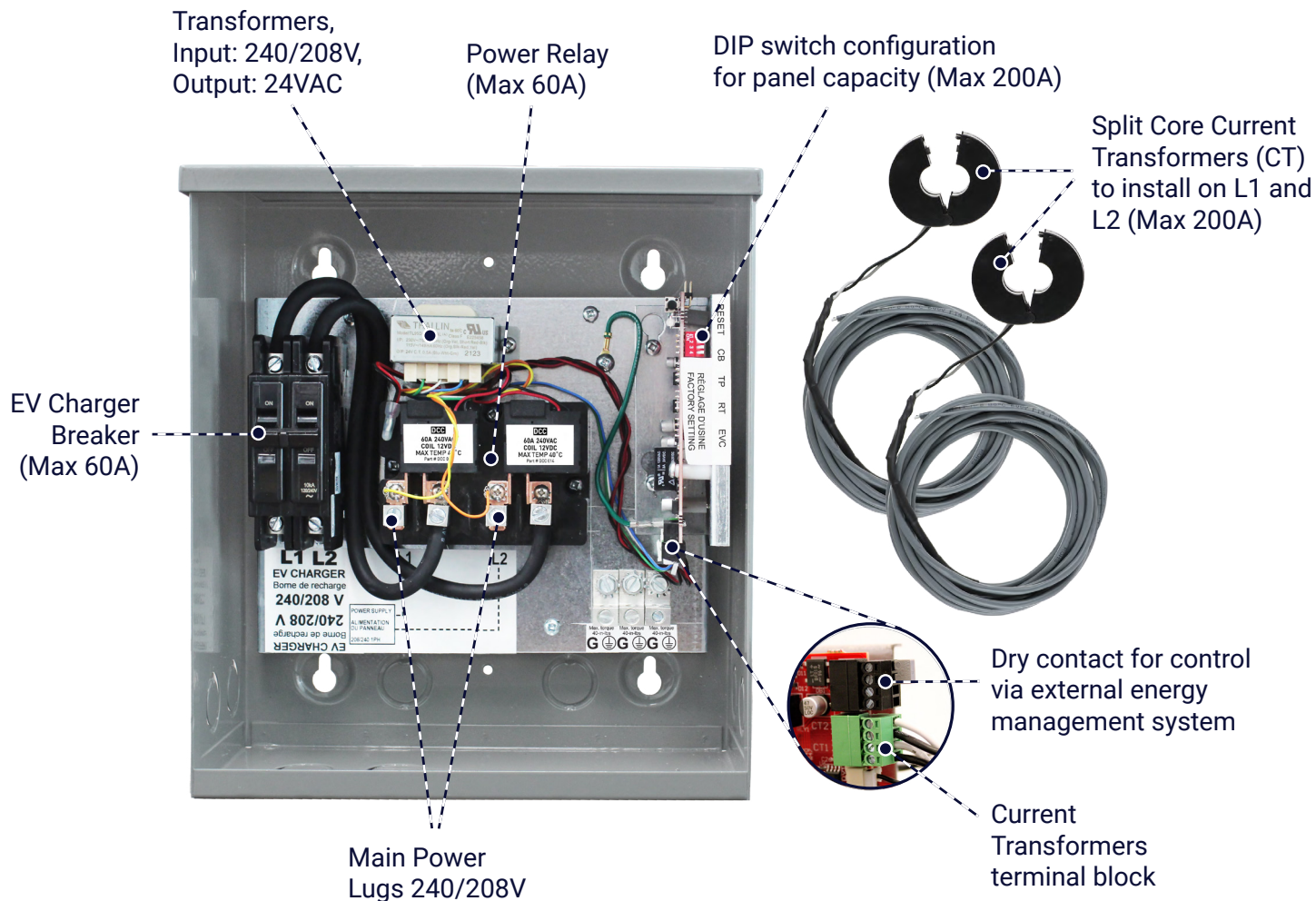
V5

INSTALLATION EXAMPLES



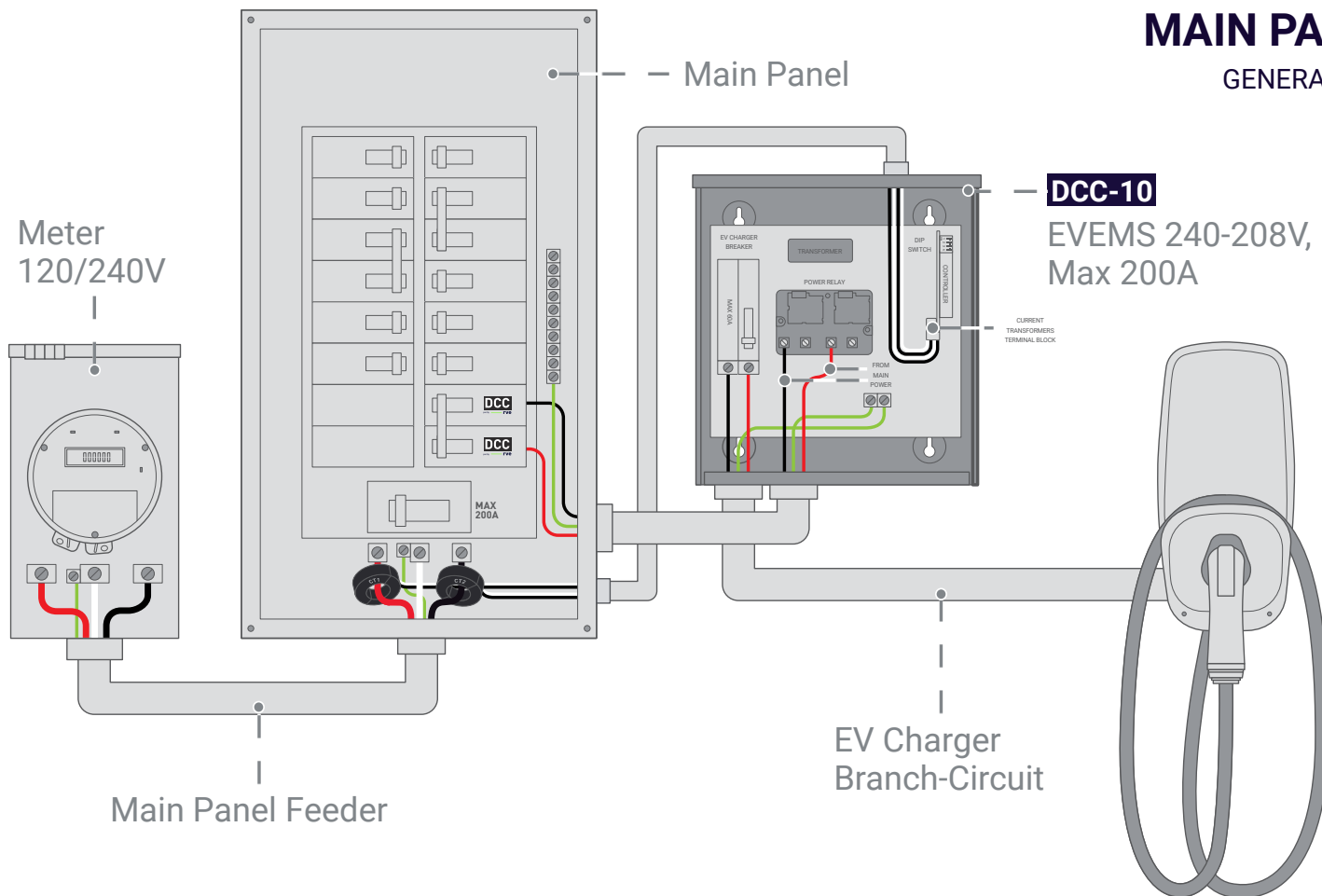
INTERNAL COMPONENTS





DCC-10 with MAIN PANEL

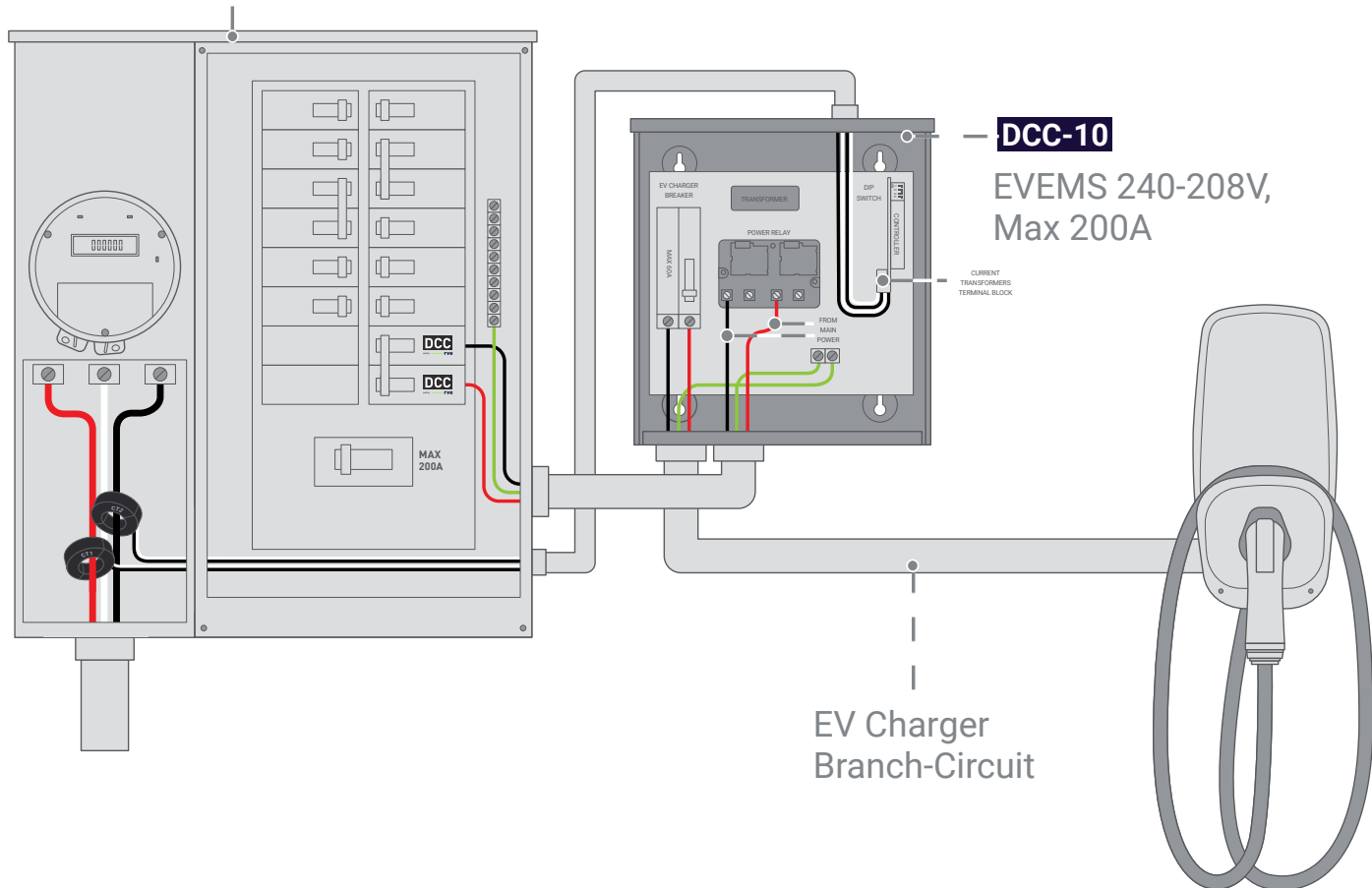
GENERATION 3



DCC-10 with METER BOX PANEL

GENERATION 3

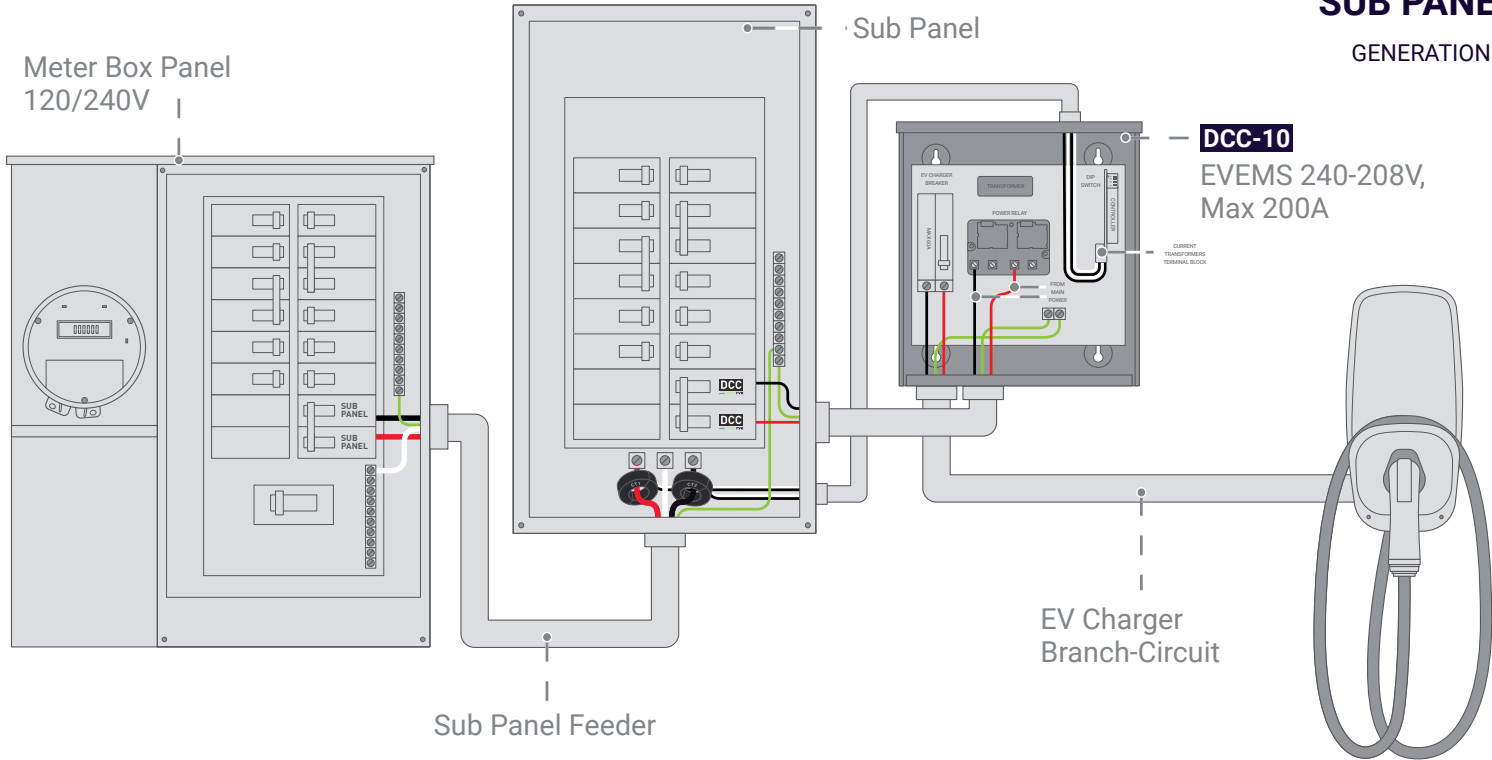
Meter Box Panel
120/240V 1



DCC-10 with SUB PANEL

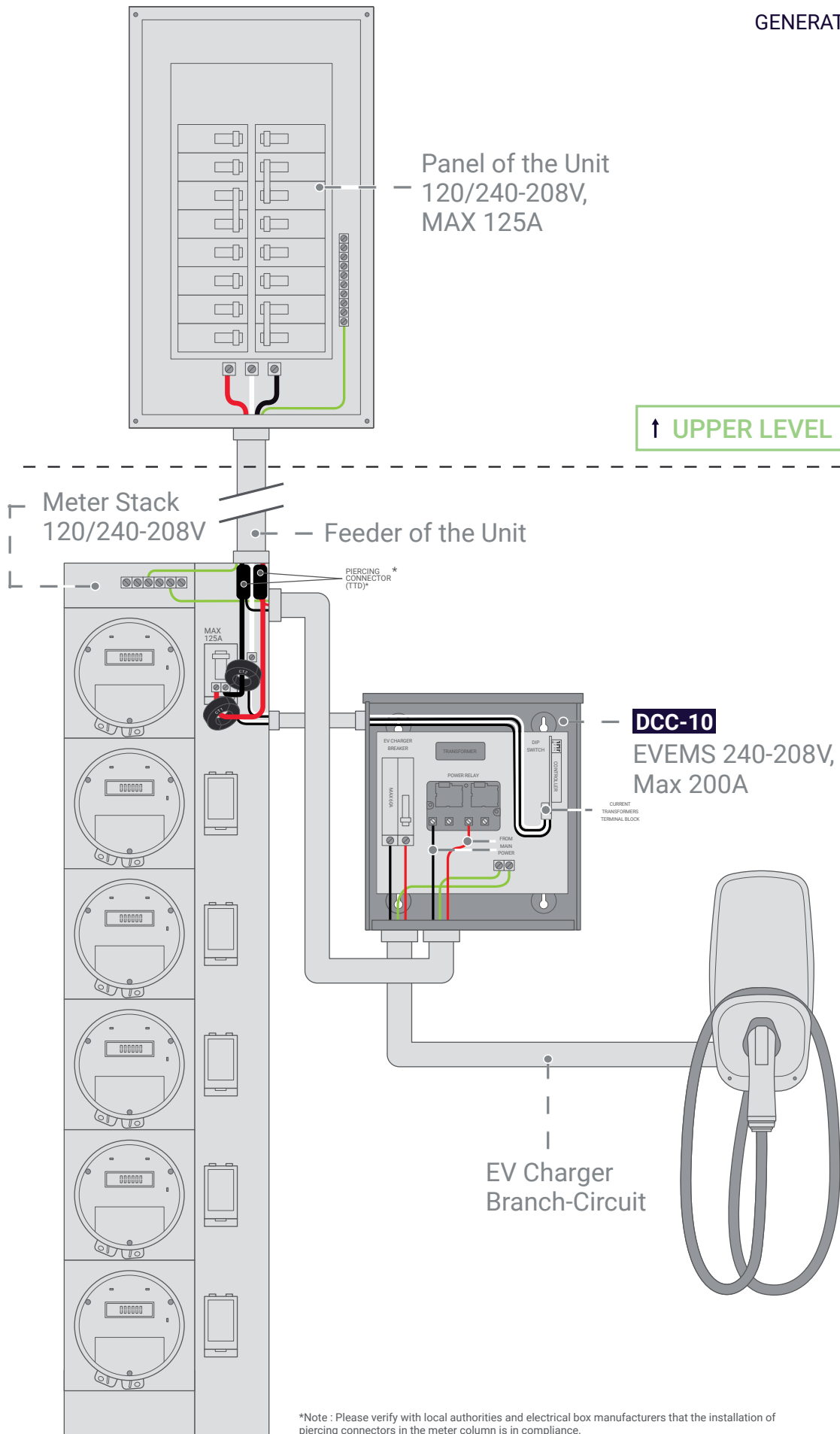
GENERATION 3

Meter Box Panel
120/240V



DCC-10 with METER STACK

GENERATION 3



*Note : Please verify with local authorities and electrical box manufacturers that the installation of piercing connectors in the meter column is in compliance.