Specification sheet

GENERATION 3

ELECTRIC VEHICLE ENERGY MANAGEMENT SYSTEM

DCC-12

PAT. NO. 10.486.539

The DCC-12 is an 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
- Power Relay (Max 60A)
- 2 Split Core Current Transformers (CT)

BREAKER	MAIN POWER SUPPLY							
EV charger ***	60A	70A	80A	90A	100A	125A	150A	200A
30A	✓	✓	✓	✓	✓	✓	✓	✓
40A	×	×	✓	✓	✓	✓	✓	✓
50A	×	×	×	×	✓	✓	✓	✓
60A	×	×	×	×	● ****	✓	✓	✓

Voltage and wiring	240/208V AC single phase: L1, L2, Neutral, Ground.
Frequency	50 à 60 Hz
Operation temperature	-22°F à 113°F (-30°C à 45°C)
Rated	NEMA 3R
Wire Gauge Size	up to 250 kcmil (MCM) **(CU/AL)****
Max torque	Relay terminals: 40 in-lbf
Dimensions* (H" x W" x D")	11" x 8" x 5"
Total weight*	8 lb (3,63 kg)

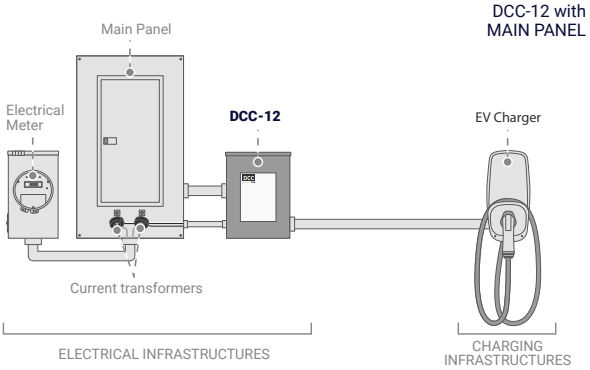
*Approximative and can change without notice.

** See Connecting aluminum conductors section in the installation manual V4

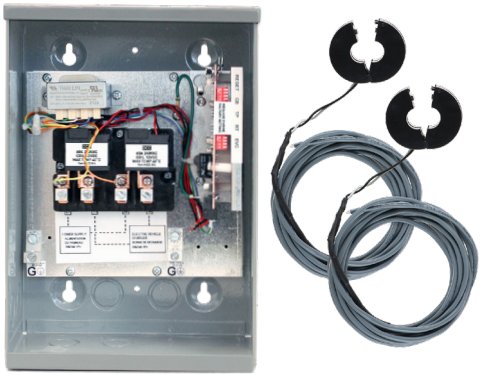
*** Not limited to compatibility with electric vehicle charging stations, this product can be installed with resistive loads of up to 60A and inductive loads of up to 40A

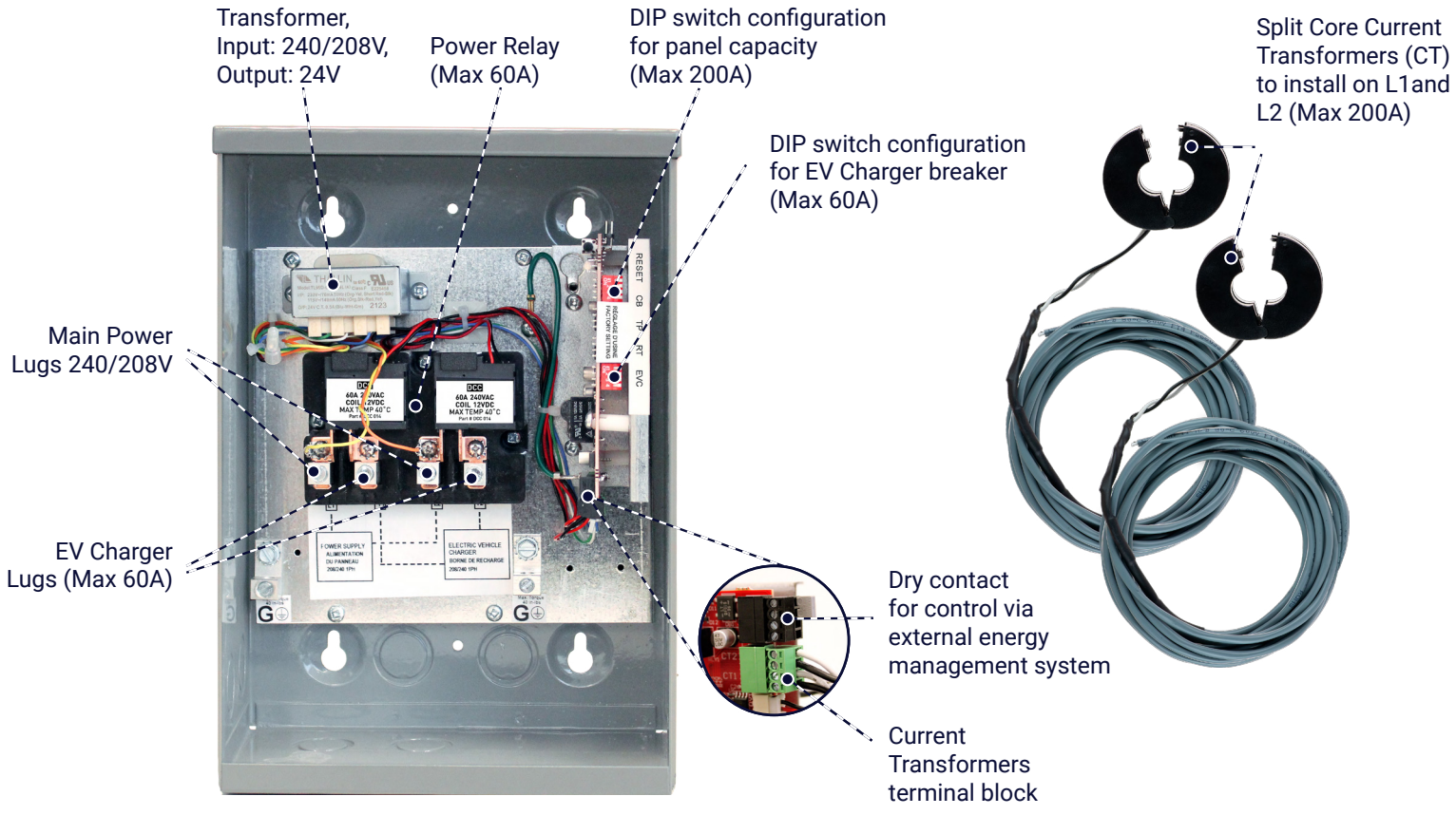
**** See dip switch programming step in manual for more details.

INSTALLATION EXAMPLES



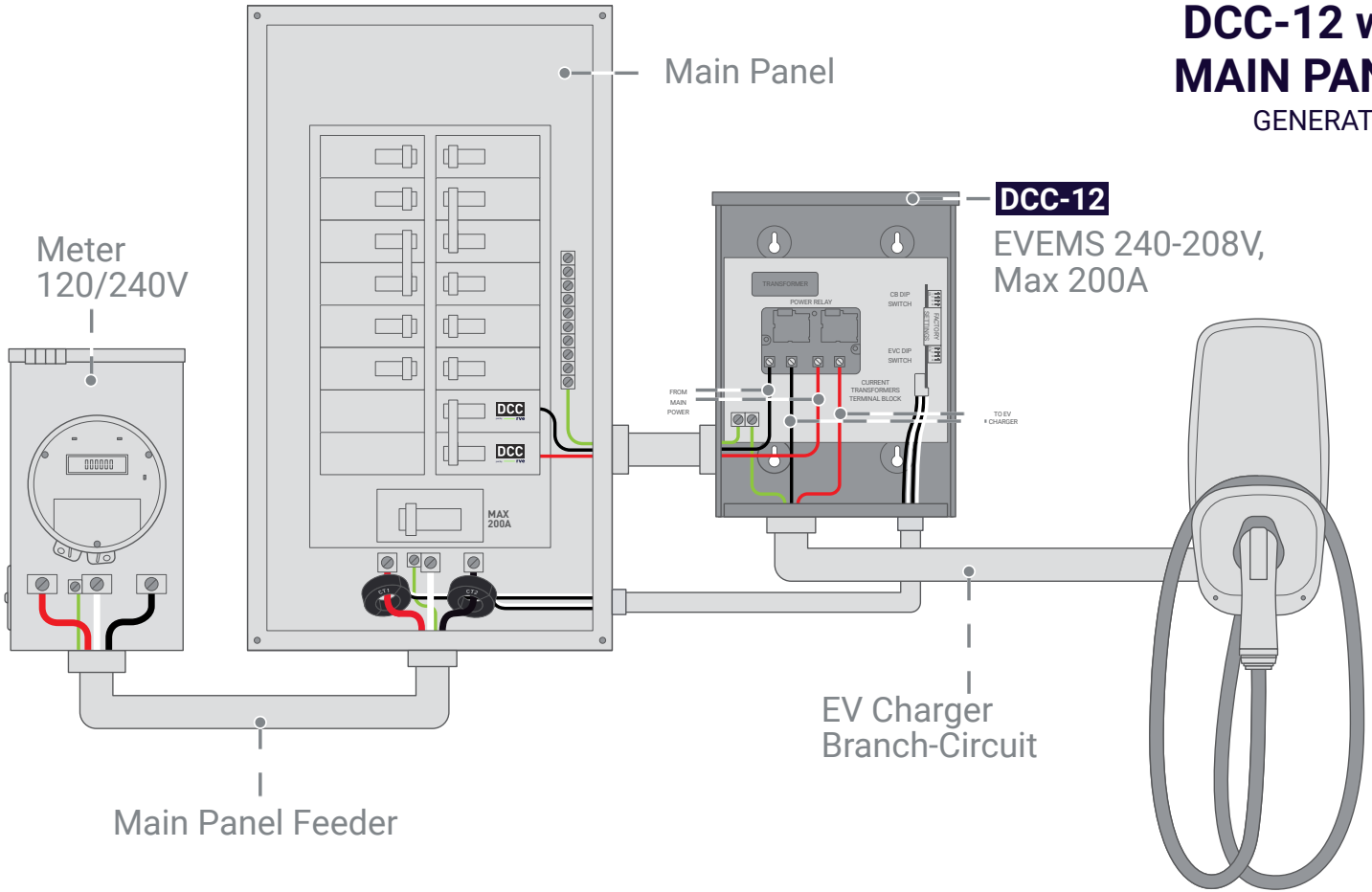
INTERNAL COMPONENTS




Transformer,
Input: 240/208V,
Output: 24V
Power Relay
(Max 60A)
DIP switch configuration
for panel capacity
(Max 200A)
DIP switch configuration
for EV Charger breaker
(Max 60A)
Split Core Current
Transformers (CT)
to install on L1and
L2 (Max 200A)
Main Power
Lugs 240/208V
EV Charger
Lugs (Max 60A)
Dry contact
for control via
external energy
management system
Current
Transformers
terminal block

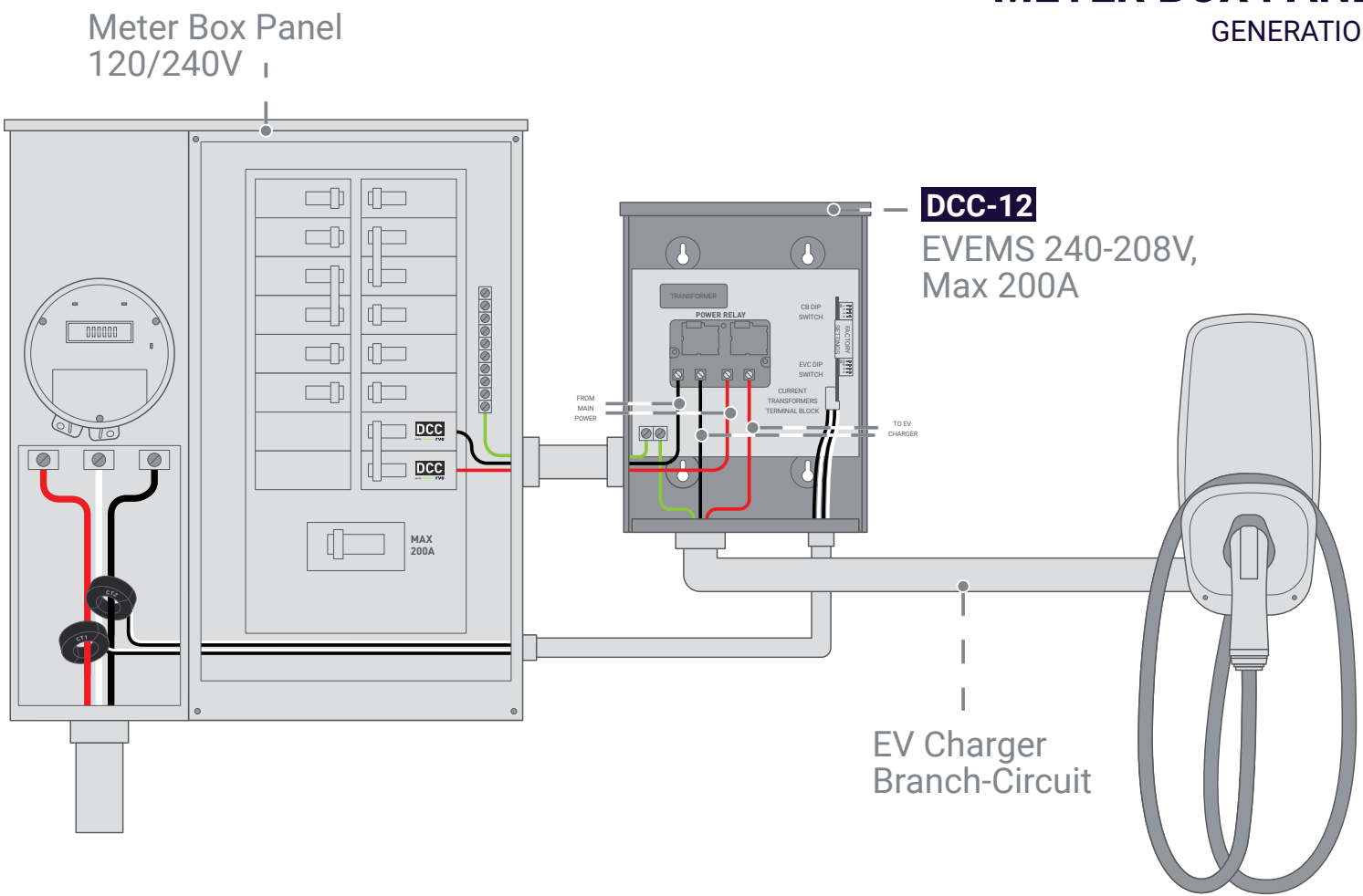
DCC-12 with MAIN PANEL

GENERATION 3



DCC-12 with METER BOX PANEL

GENERATION 3



DCC-12 with SUB PANEL

GENERATION 3