Specification sheet

ELECTRIC VEHICLE ENERGY MANAGEMENT SYSTEM

DCC-10

PAT. NO. 10.486.539

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)

*Approximative and can change without notice.

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

V5

*** 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.

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.

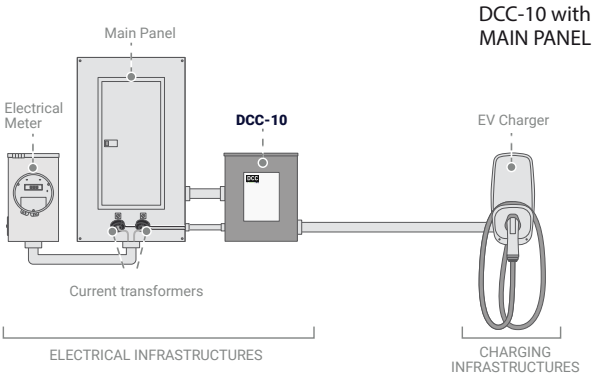
FEATURES

- 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.

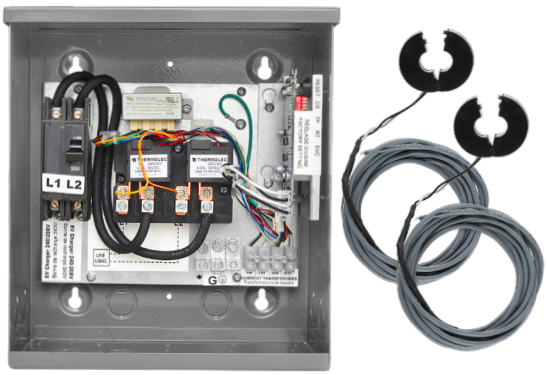
INCLUDED

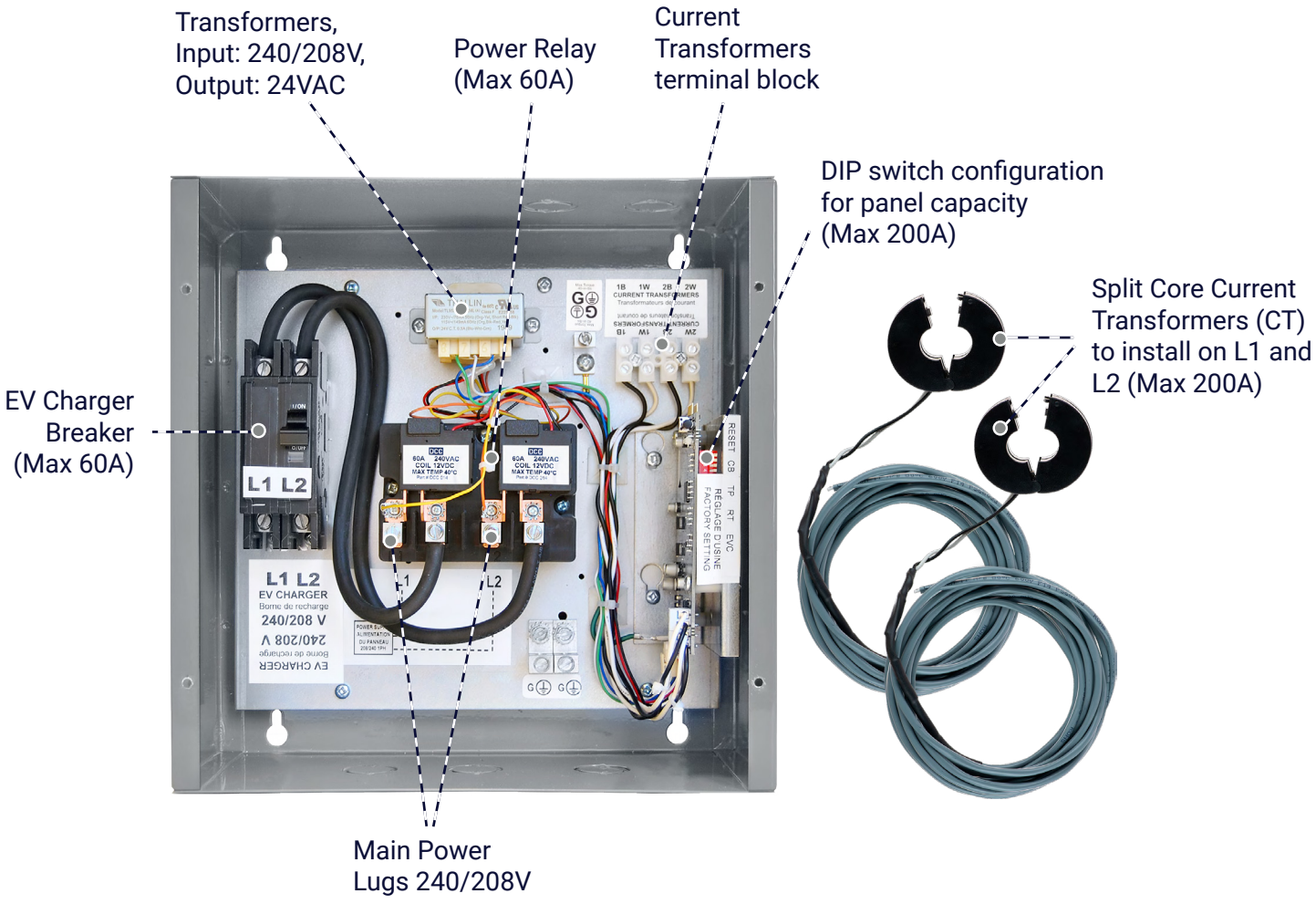
- Electric Vehicle Energy Management System
- EV Charger Breaker (Max 60A)
- 2 Split Core Current Transformers (CT)

INSTALLATION EXAMPLES

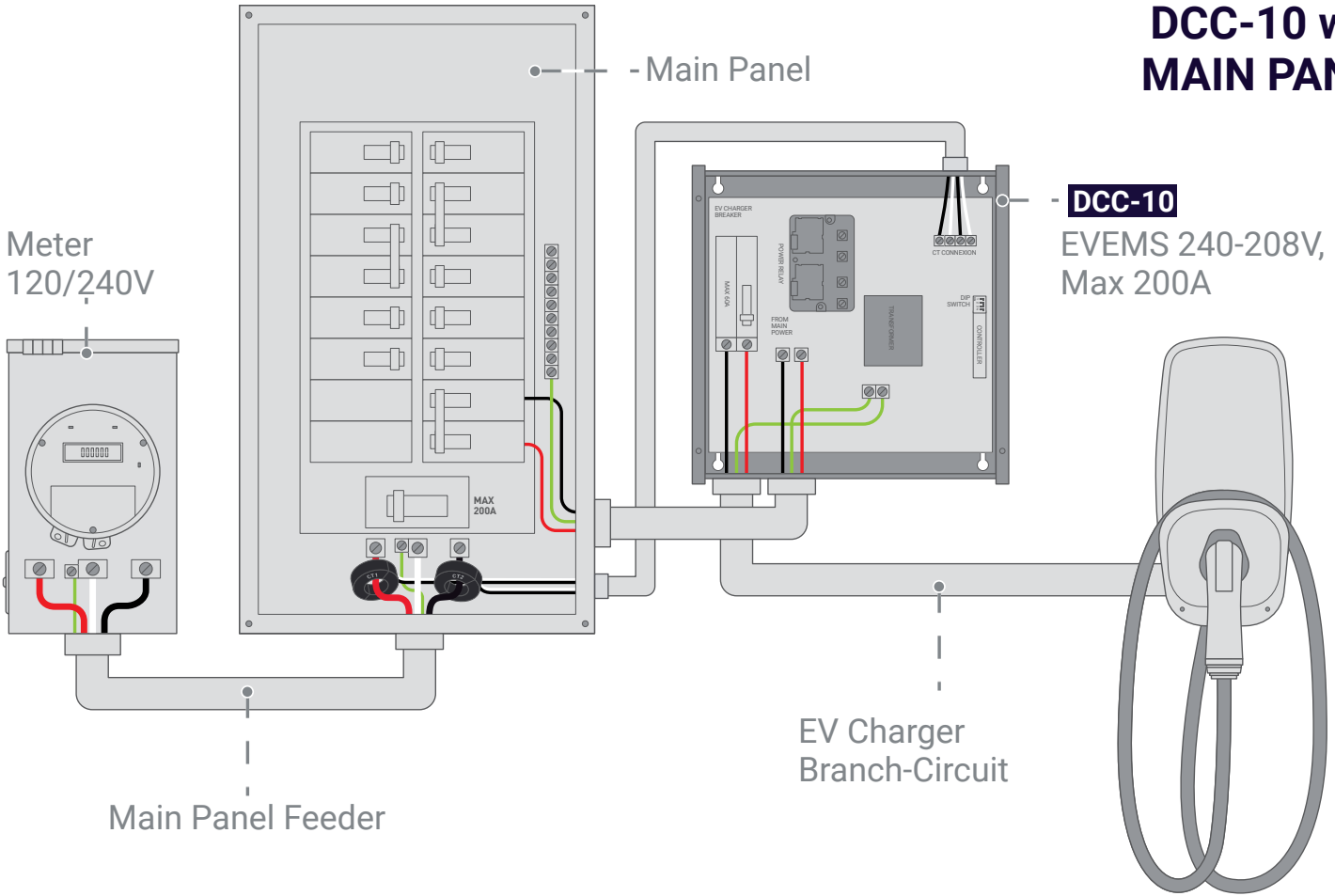


INTERNAL COMPONENTS

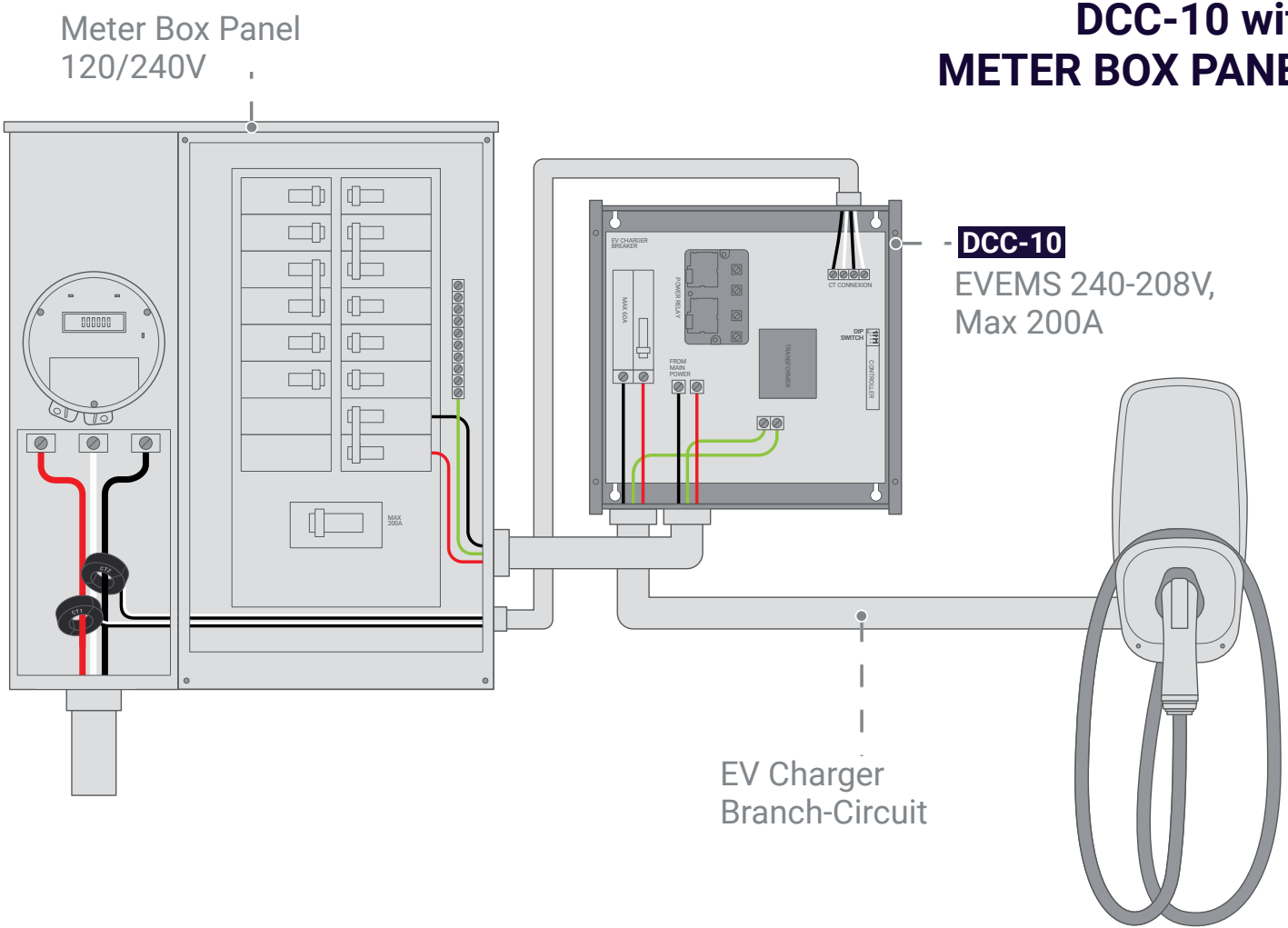
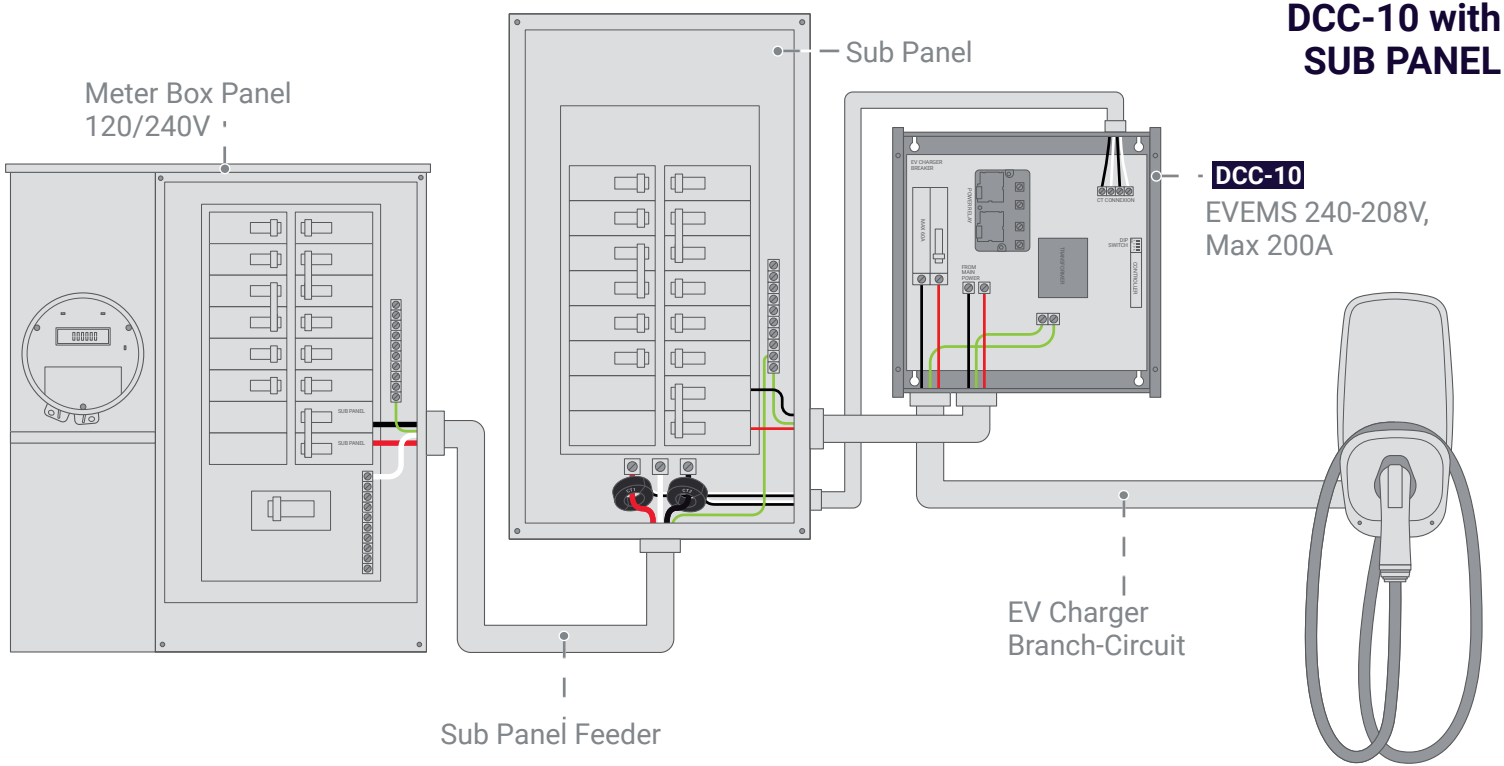



Transformers,
Input: 240/208V,
Output: 24VAC
Power Relay
(Max 60A)
Current
Transformers
terminal block
DIP switch configuration
for panel capacity
(Max 200A)
Split Core Current
Transformers (CT)
to install on L1 and
L2 (Max 200A)
EV Charger
Breaker
(Max 60A)
Main Power
Lugs 240/208V
L1 L2
EV CHARGER
Borne de recharge
240/208 V
L1
L2
60A 240VAC
COIL 12VDC
MAX TEMP 40°C
RESET CB
TP RT EVC
REGLAGE D'USINE
FACTORY SETTING

DCC-10 with MAIN PANEL



DCC-10 with METER BOX PANEL



DCC-10 with SUB PANEL