

# ELECTRIC VEHICLE ENERGY MANAGEMENT SYSTEM



Now  
compatible  
with loads up to  
**100A**  
(80A  
continuous)

UL US SP US  
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 100A)
- 2 Split Core Current Transformers (CT)
  - CT Opening: Up to 250 kcmil (MCM) CU/AL

BREAKER	MAIN POWER SUPPLY											
EV charger***	30A	40A	50A	60A	70A	80A	90A	100A	125A	150A	175A	200A
20A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
30A	✗	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
40A	✗	✗	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
50A	✗	✗	✗	✓	✓	✓	✓	✓	✓	✓	✓	✓
60A	✗	✗	✗	✗	✓	✓	✓	✓	✓	✓	✓	✓
70A	✗	✗	✗	✗	✗	✓	✓	✓	✓	✓	✓	✓
80A	✗	✗	✗	✗	✗	✗	✓	✓	✓	✓	✓	✓
90A	✗	✗	✗	✗	✗	✗	✗	✓	✓	✓	✓	✓
100A	✗	✗	✗	✗	✗	✗	✗	✗	✓	✓	✓	✓

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 2 to 12 AWG\*\*

Max torque Relay terminals: 50 in-lbf

Dimensions\* (H" x W" x D") 11" x 8" x 5"

Total weight\* 8 lb (3,63 kg)

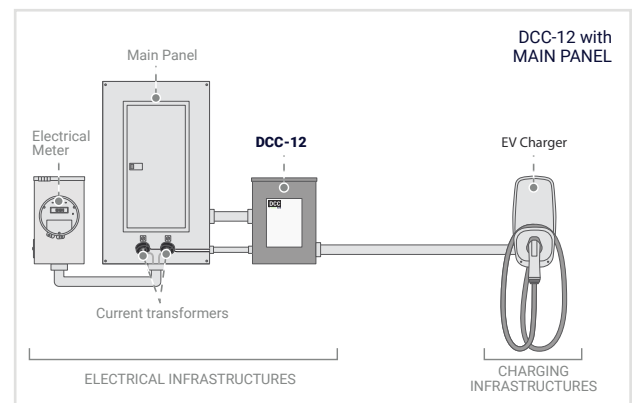
\*Approximative and can change without notice.

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

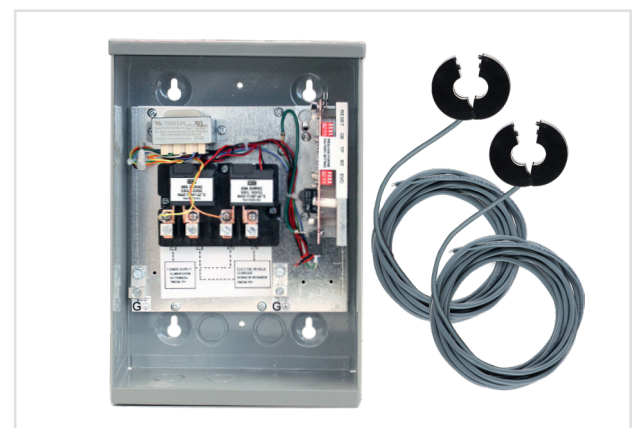
\*\*\* Not limited to compatibility with electric vehicle charging stations, this product can be installed with resistive loads of up to 100A (80 continuous) and inductive loads of up to 50A (40A continuous)

V5

## INSTALLATION EXAMPLES



## INTERNAL COMPONENTS



Transformer,  
Input: 240/208V,  
Output: 24V

Power Relay  
(Max 100A)

DIP switch configuration  
for panel capacity  
(Max 200A)

DIP switch configuration  
for EV Charger breaker  
(Max 100A)

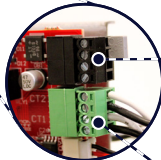
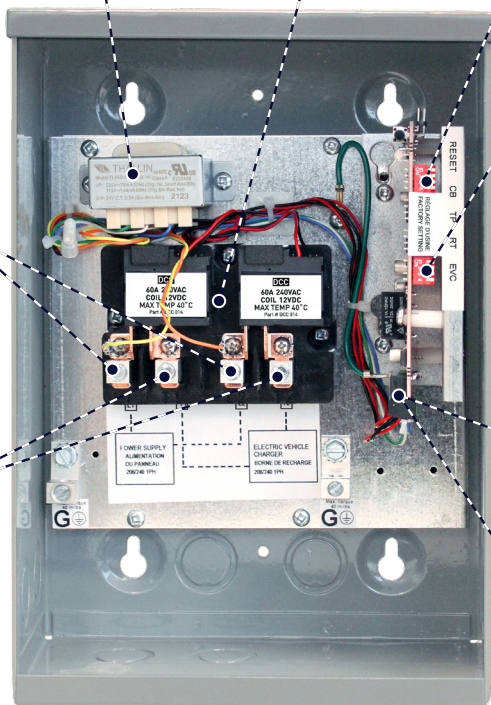
Split Core Current  
Transformers (CT)  
to install on L1 and  
L2 (Max 200A)

Main Power  
Lugs 240/208V

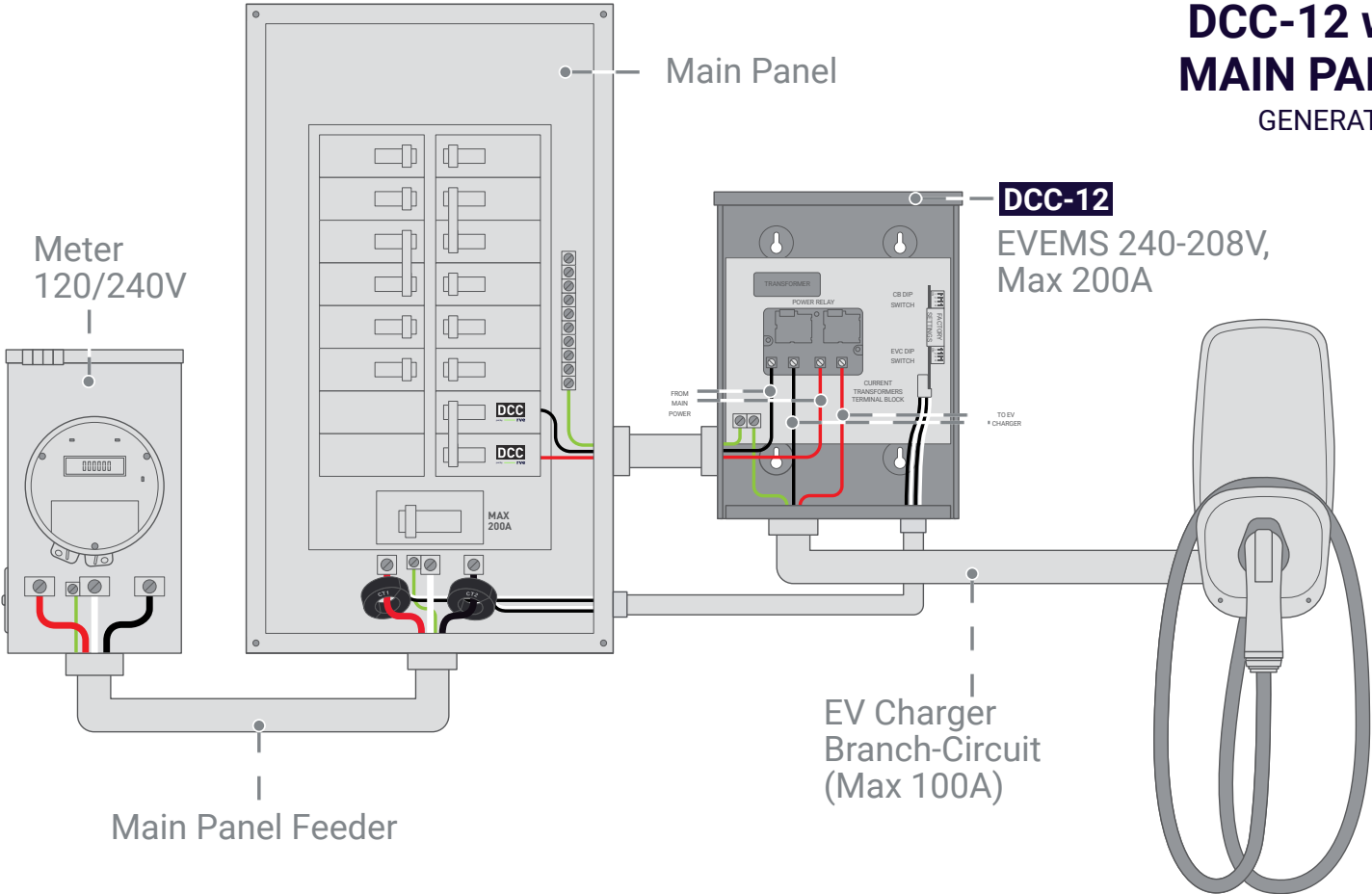
EV Charger Lugs  
(Max 100A)

Dry contact  
for control via  
external energy  
management system

Current  
Transformers  
terminal block



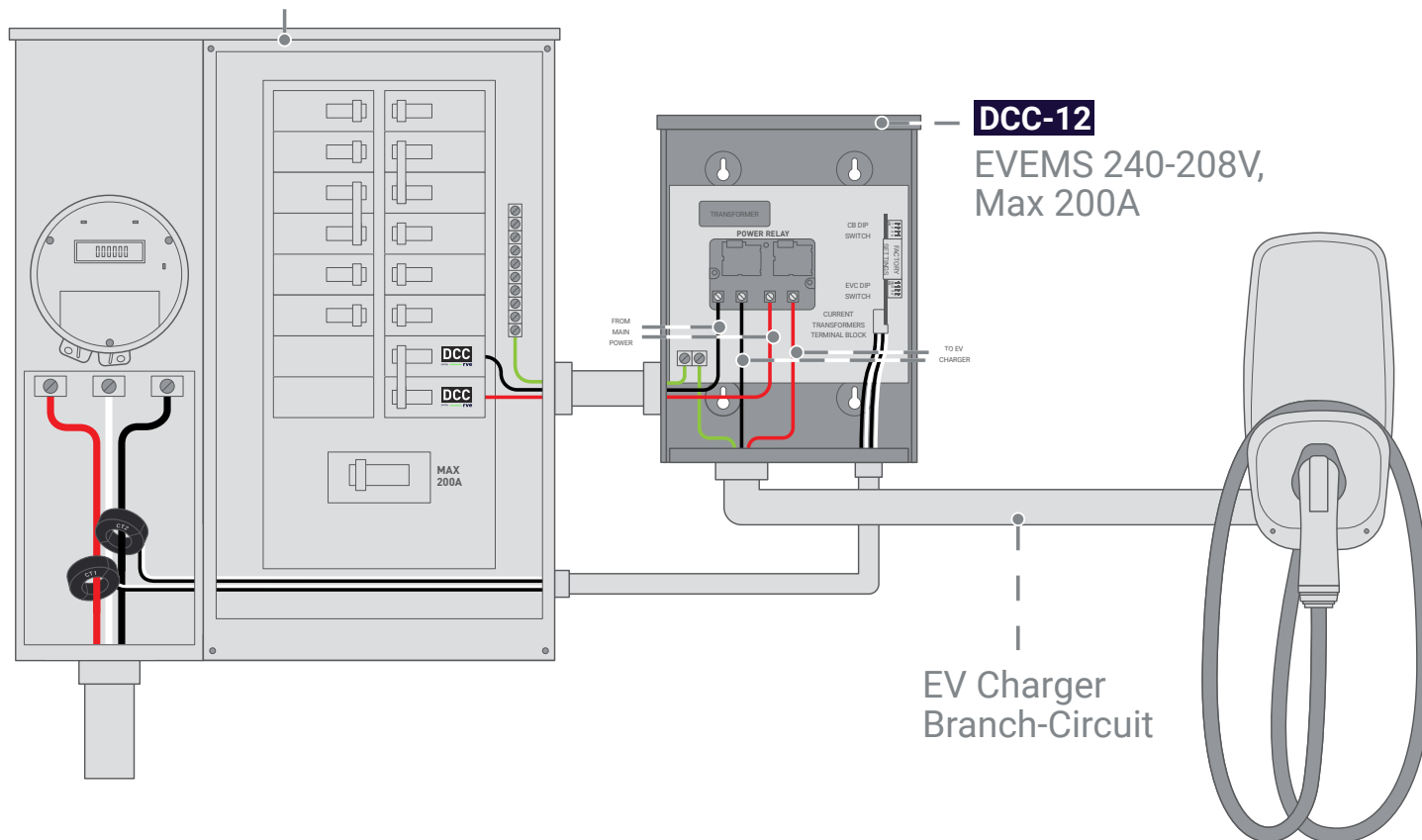
**DCC-12 with  
MAIN PANEL**  
GENERATION 3



# DCC-12 with METER BOX PANEL

GENERATION 3

Meter Box Panel  
120/240V



# DCC-12 CIRCUIT SWITCHING GENERATION 3

