

DCC-9

Electric Vehicle Energy Management System

ENGLISH

GENERATION 3



PAT. NO. 10.486.539



DCC-9 is an energy management system designed to allow the connection of an EV charger to the main feeder of a panel without affecting the load calculation.

OPERATION

- Real-time reading of the total panel power consumption with pre-wired current transformers (CT).
- Detects when total power consumption exceeds 80% of main circuit breaker capacity and temporarily de-energizes the EV charger.
- Automatically re-energizes the EV charger when the total power consumption is less than 80% of main circuit breaker capacity for more than 15 minutes.

FEATURES

- Does not affect load calculation of a panel.
- Automatic billing of electricity by the utility for multi-unit residential building installations.
- Can be ceiling or wall mounted.
- NEMA 3R enclosure available for outdoor installations.
- 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
- Splitter Box (Max 125A)
- EV Charger Breaker (Max 60A)
- 2 Pre-Wired Current Transformers (CT)

Models	Breaker EV charger	Main power supply							
		60A	70A	80A	90A	100A	125A	150A	200A
DCC-9-30A	30A	✓	✓	✓	✓	✓	✓	×	×
DCC-9-40A	40A	×	×	✓	✓	✓	✓	×	×
DCC-9-50A	50A	×	×	×	×	✓	✓	×	×
DCC-9-60A	60A	×	×	×	×	×	✓	×	×

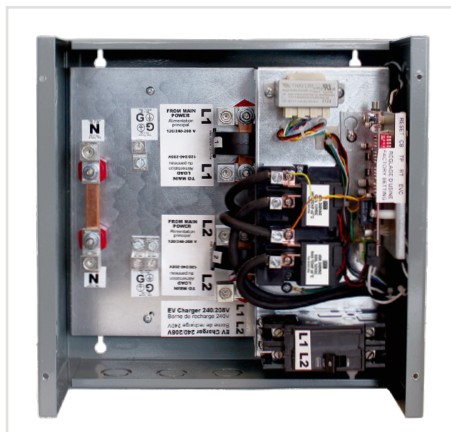
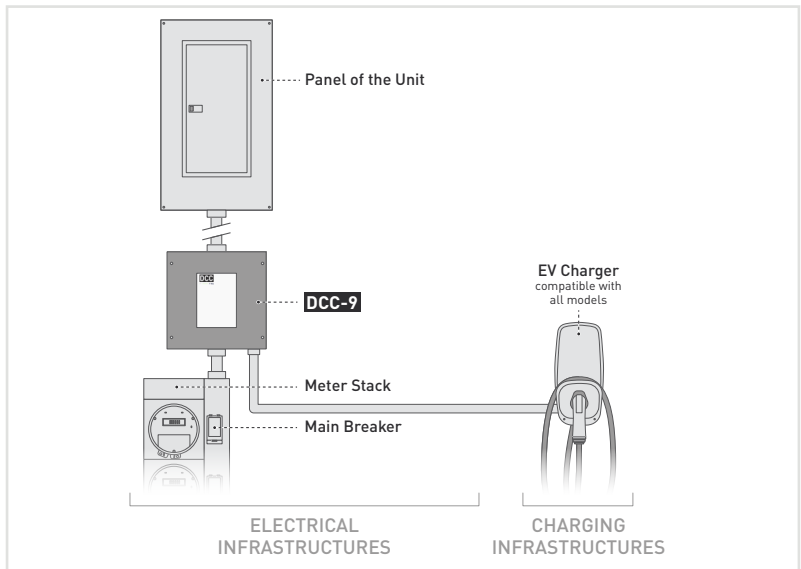
SEE DCC-11

Voltage and wiring	240/208V AC single phase: L1, L2, Neutral, Ground.
Terminals size	up to 2/0 (CU/AL)
Frequency	50 to 60 Hz
Operation temperature	-22°F to 113°F (-30°C to 45°C)

	Dimensions* (H" x W" x D")	Total weight*
	12" x 12" x 7.5"	17 lb (7,71 kg)
NEMA 3R enclosure	14" x 13" x 8"	18 lb (8,16 kg)

*Approximative and can change without notice. V2

INSTALLATION EXAMPLE



INTERNAL COMPONENTS

Splitter Box
120/240-208V (Max125A)

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

Main Power Lugs

Neutral Lugs

Main Load Lugs

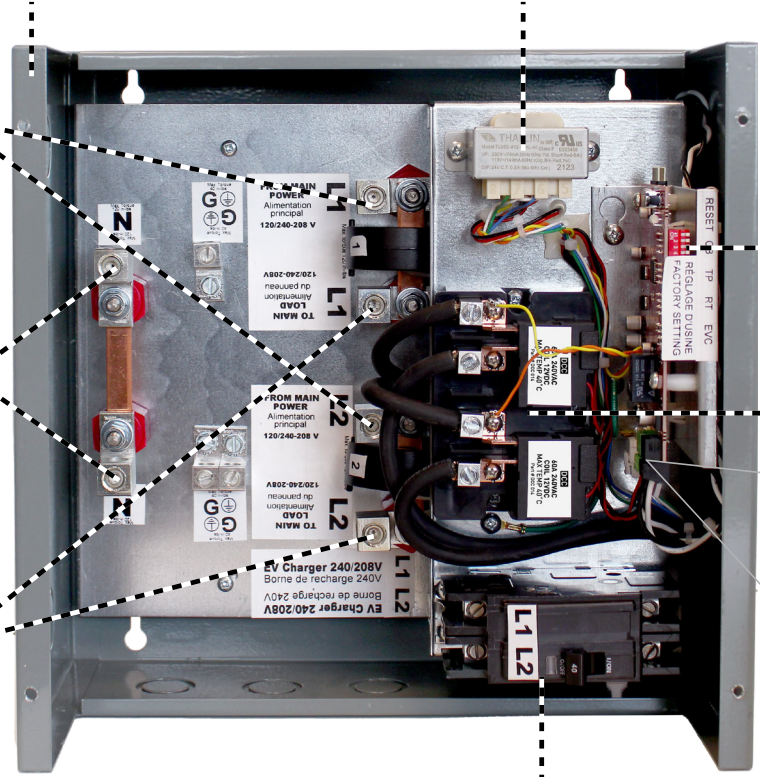
DIP switch configuration
for panel capacity

Power Relay
(Max 60A)

Dry contact for control
via external energy
management system

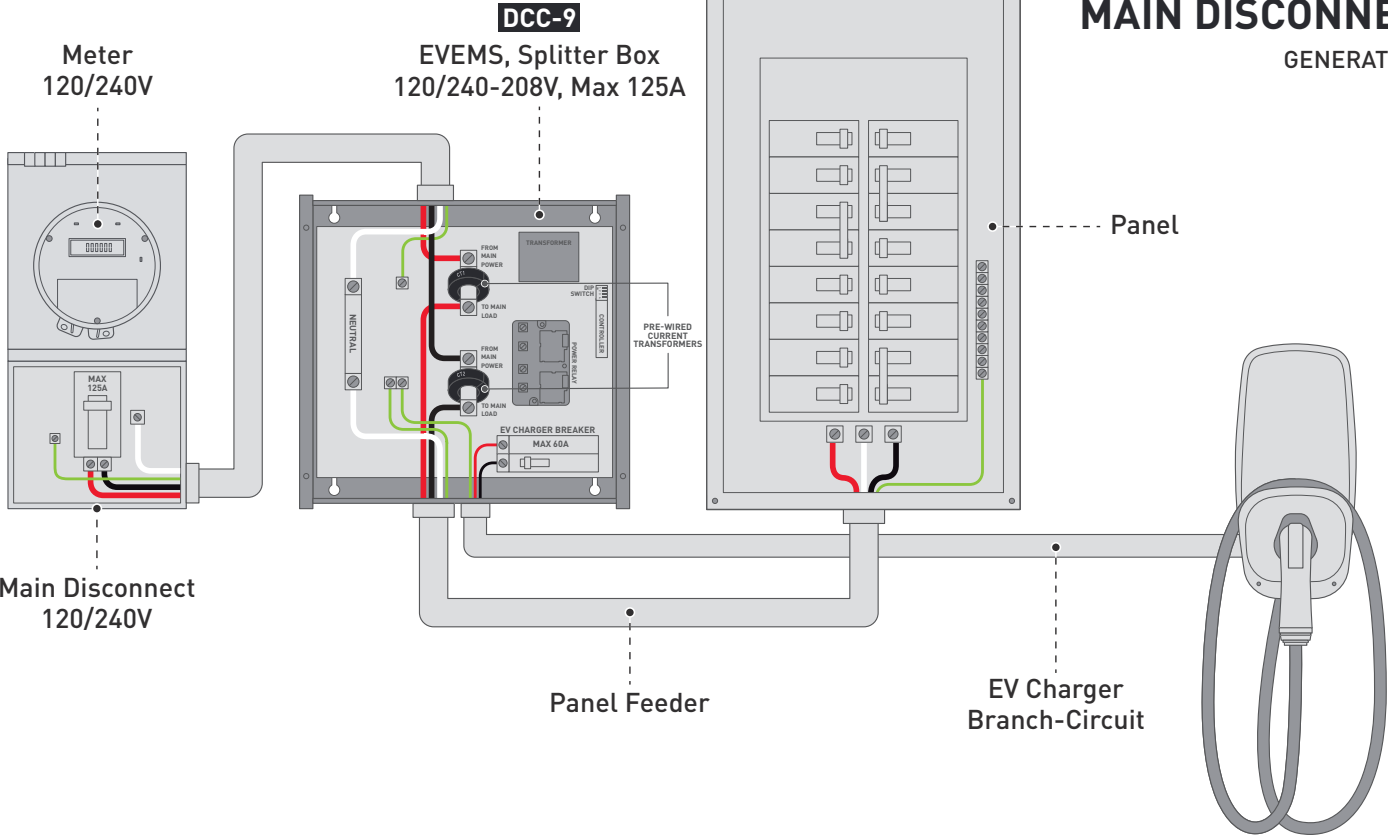
Pre-wired Current
Transformers (CT)
on L1 and L2

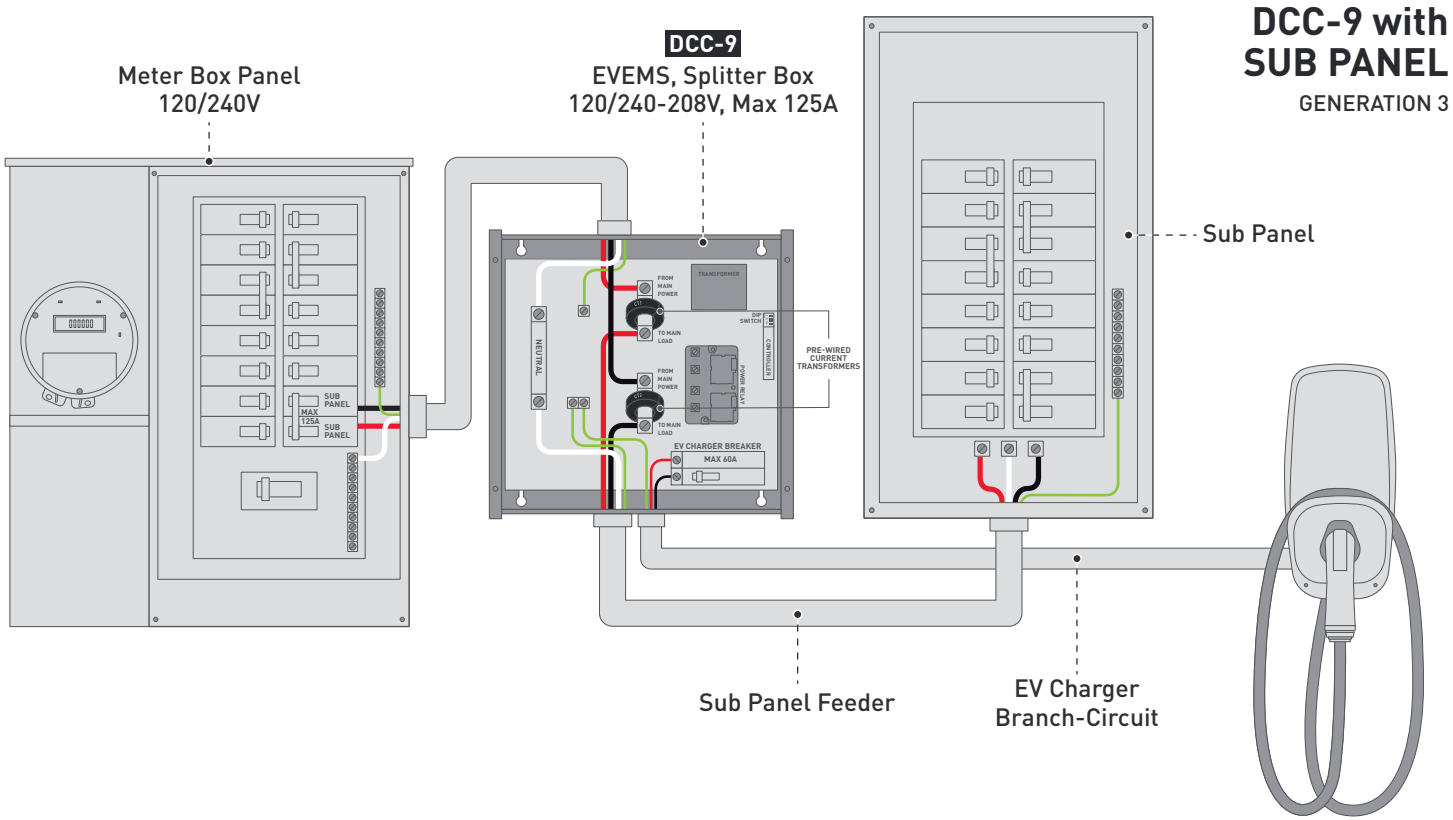
EV Charger Breaker
(Max 60A)



DCC-9 with MAIN DISCONNECT

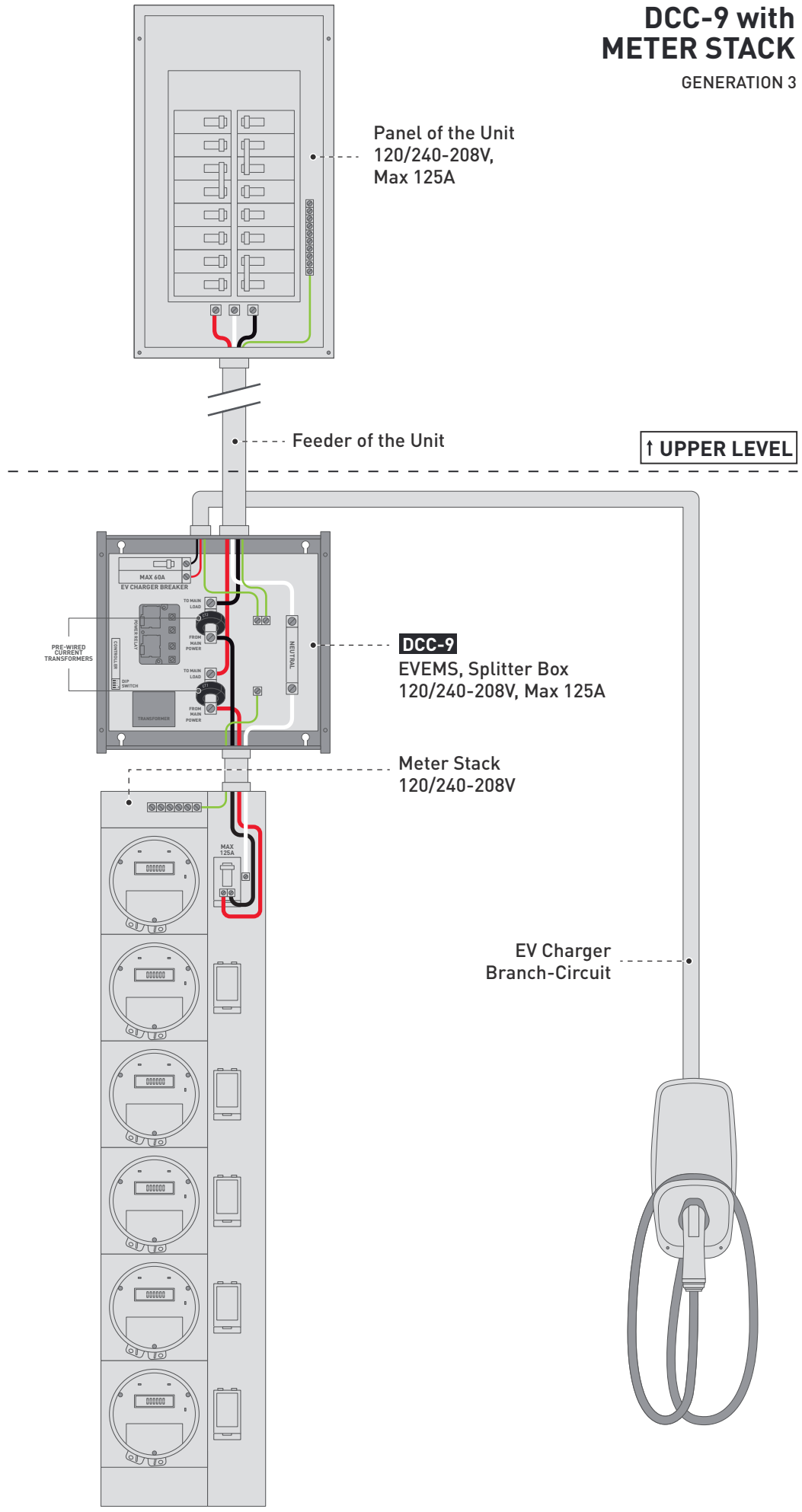
GENERATION 3





DCC-9 with METER STACK

GENERATION 3



Panel of the Unit
120/240-208V,
Max 125A

Feeder of the Unit

↑ UPPER LEVEL

PRE-WIRED
CURRENT
TRANSFORMERS

DCC-9
EVEMS, Splitter Box
120/240-208V, Max 125A

Meter Stack
120/240-208V

EV Charger
Branch-Circuit