EVCMC-1B-40A

ELECTRIC VEHICLE ENERGY MANAGEMENT SYSTEM

i-meter®

Innovative Metering Systems

EVCMC-1B-40A Electric Vehicle Energy Management System

PAT. NO. 10.486.539

Model	Breaker	Main power supply			
	EV Charger	80A	90A	100A	125A
EVCMC-1B-40A	40A	✓	✓	✓	✓
Voltage and wiring	240/208V AC single phase: L1, L2, Neutral, Ground				
Terminal 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 ***			
NEMA 3R enclosure	14" x 13" x 8"	18 lb (8,16 kg)			
*Approximative and can change without notice					

The EVCMC-1B-40A is an energy management system designed to allow the connection of an EV charger to the main feeder of a panel without affecting the capacity limit of the main feeder.

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, including that of the EV Charger, is less than 80% of main circuit breaker capacity for more than 15 minutes.

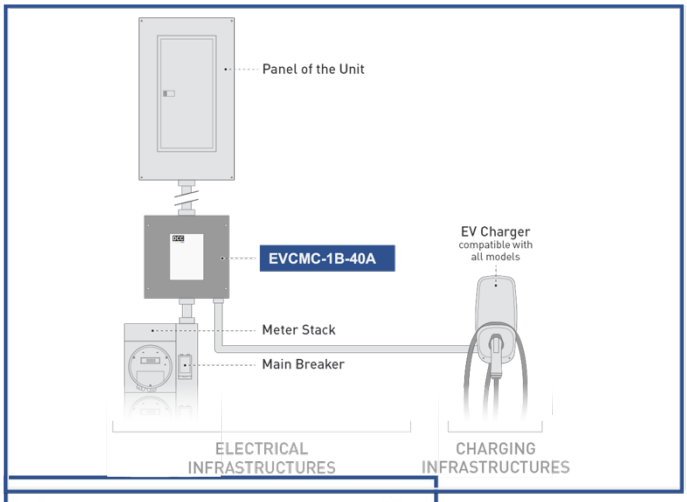
FEATURES

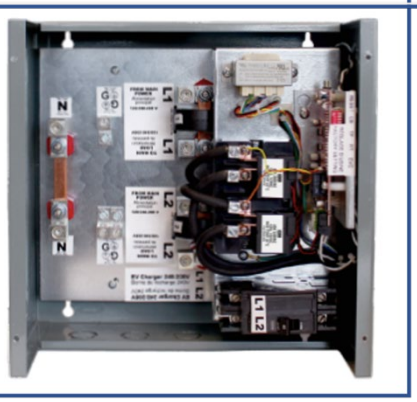
– Ideal when no more breaker slots are available in a panel
– Does not affect the load calculation of a distribution panel.
– Automatic billing of electricity by the utility because it is installed downstream from the meter.
– NEMA 3R enclosure is ideal for indoor or outdoor installations. - Possibility 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
– Maximum Main Service Ampacity 125Amperes
– EV Charger Breaker (Max 40A)
– 2 Pre-Wired Current Transformers (CT)

INSTALLATION EXAMPLE





INTERNAL COMPONENTS

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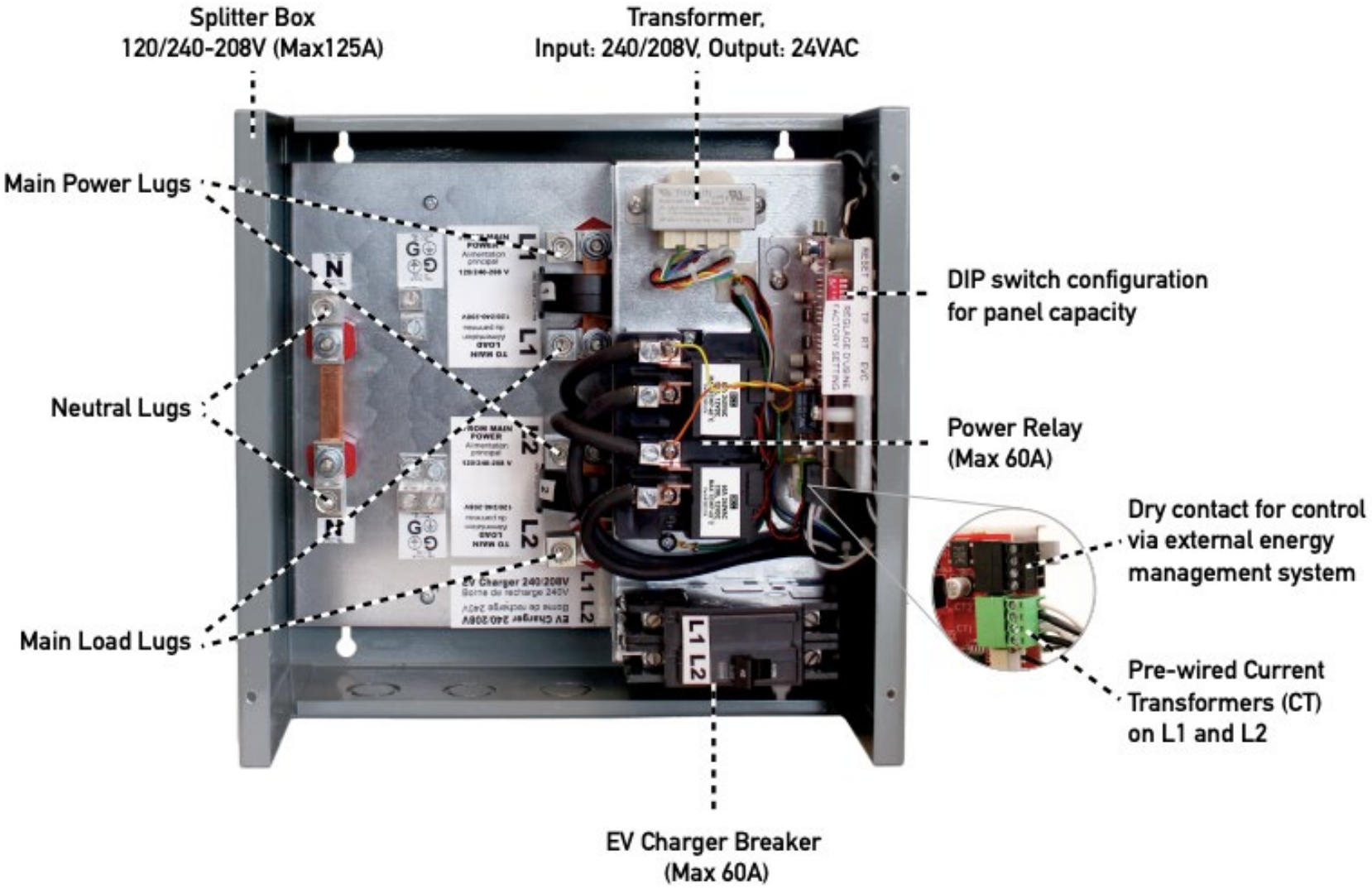

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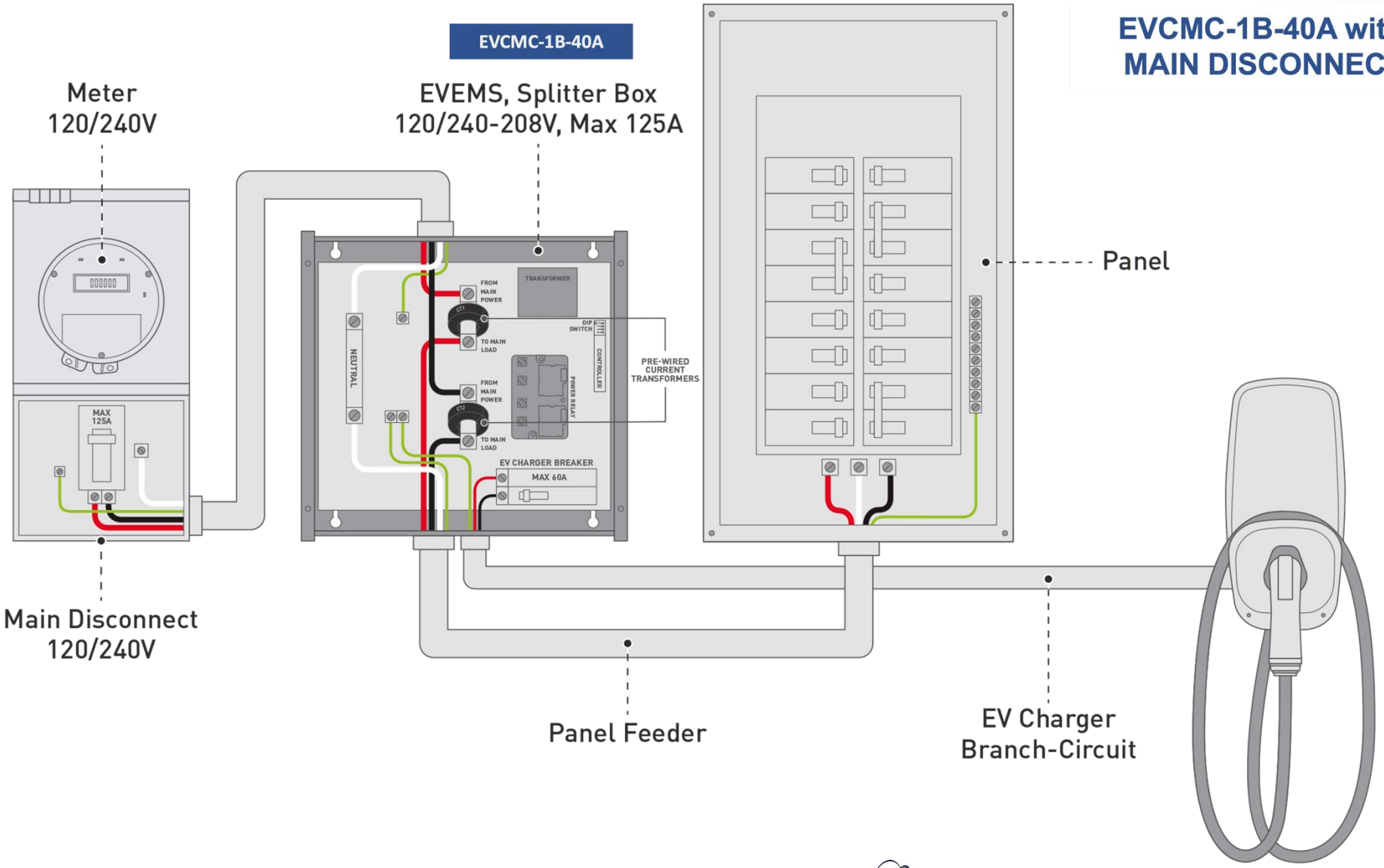
EVCMC-1B-40A with MAIN DISCONNECT



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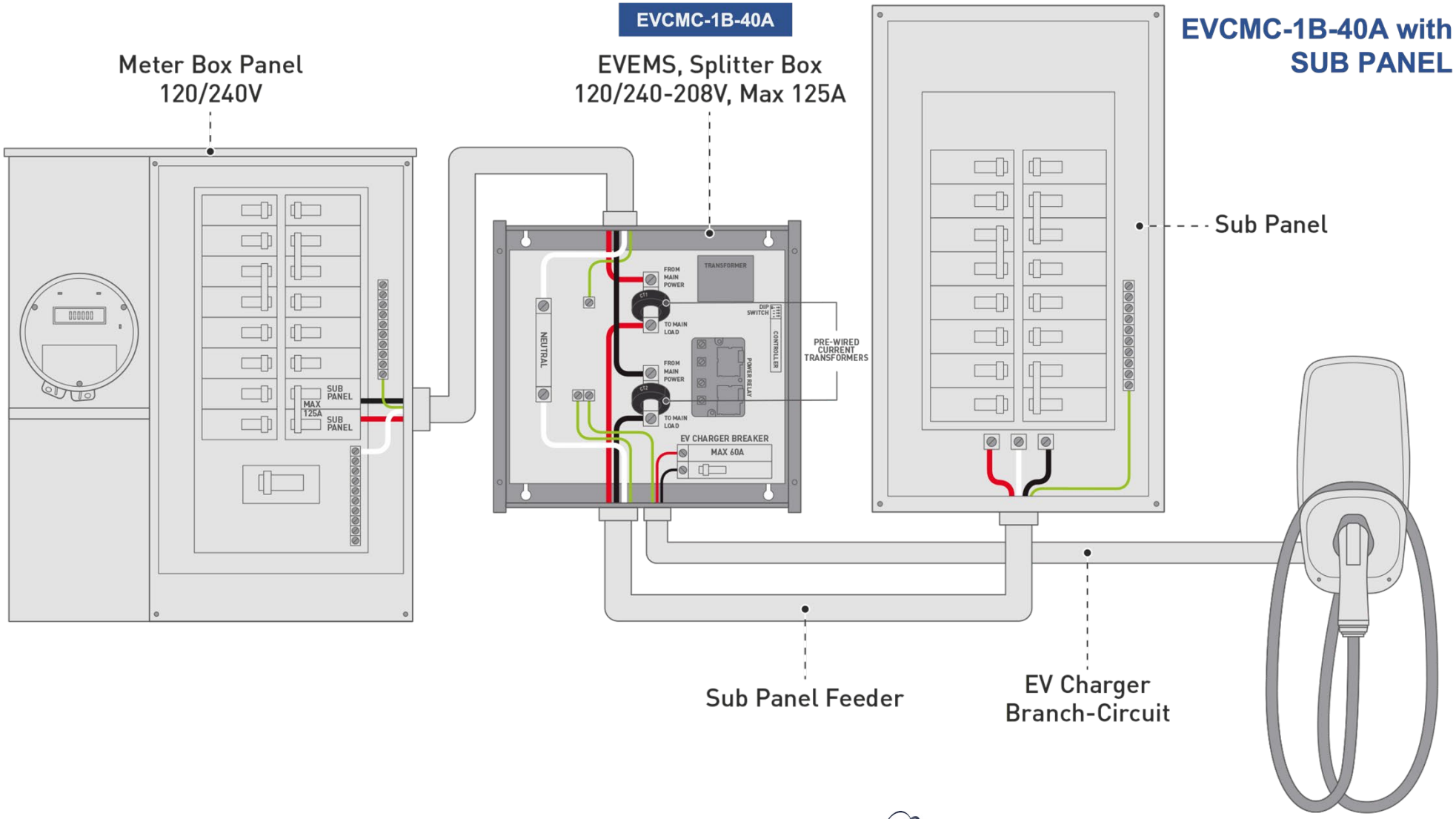
EVCMC-1B-40A with SUB PANEL



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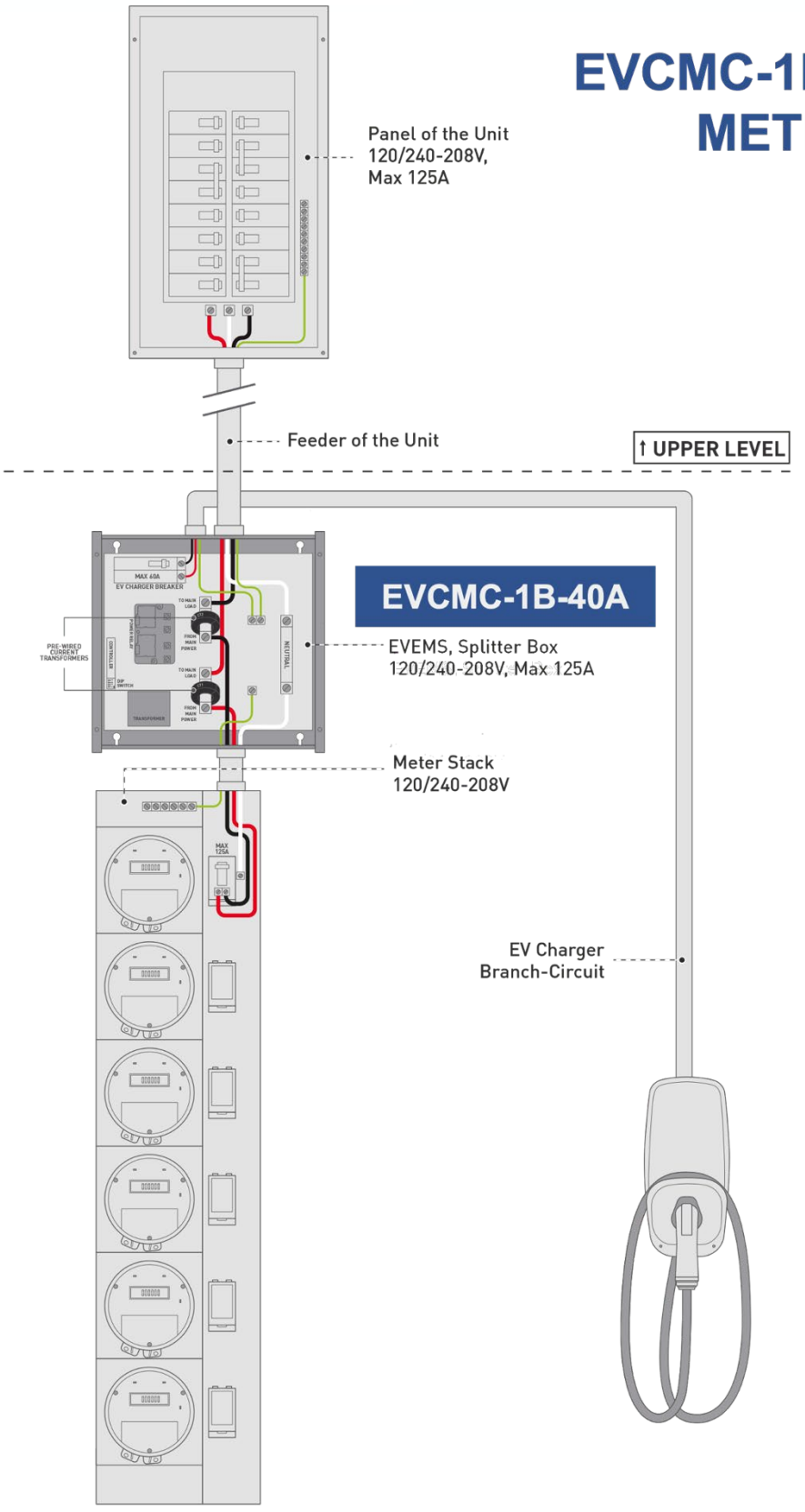
EVCMC-1B-40A with METER STACK



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