Specification sheet

DCC+

DCC-9+

DCC-11+

The DCC+ is a connected, intelligent[1] electric vehicle energy management system (EVEMS). Like the classic DCC, it enables a charging station to be connected directly to the main power supply of a dwelling which would otherwise not have sufficient capacity or the necessary configuration to allow the connection. The DCC+ stands out for its ability to protect the entire electrical infrastructure when used in *Connected* mode.

DESCRIPTION

Individual mode

The DCC+ protects the existing electrical infrastructure (feeder) of a dwelling or condo. It can be connected to the HUB by RVE at any time to enable intelligent energy management for a building.

Connected mode

The DCC+ is connected to the HUB by RVE to protect the entire building's electrical infrastructure by managing the energy, in addition to protecting the electrical infrastructure (feeder) of the dwelling or condo to which it is connected.

ADVANTAGES

Security

- Fail-safe current designed to add 0A to the load calculation of the building or dwelling infrastructure when the DCC+ loses communication with its parent HUB or detects an open current transformer (CT) on the feeder to the dwelling it is monitoring;
- Real-time monitoring of the energy consumed, in amperes, by the charging station and the dwelling;
- A reliable product certified to the highest industry standards;
- Does not add an additional load to the dwelling's electrical panel;
- Wired connection and local decision-making (no network connectivity required to operate security functions).

Flexibility

- Versatile product that can be used in *Individual* or *Connected* mode;
- Scalable, remote software updates;
- Can protect all components of a building's electrical infrastructure when connected to the HUB, such as the main service, transformers or any other critical component;
- NEMA 3R enclosure available for out-door installation;
- Can be wall- and ceiling-mounted;
- Automated billing of electricity consumed by the electric vehicle.

Profitability

- Electricity billed at the lower residential rate;
- No need to replace existing electrical infrastructure (electrical panel, main service);
- Eligible for peak demand management (PDM) programs and integration of power outage restoration capabilities;
- No recurring costs, monthly subscriptions or management fees for basic features.

CONNECT PORTAL

RVE's Connect portal is a digital solution for viewing the monitoring and control data from the HUB, as well as from the DCC+ and SMP to which it is connected.

Contact us for more information:
sales@rve.ca | 1 833 717-1355

OPERATION

STEPS	OPERATION	IN *INDIVIDUAL* MODE	IN *CONNECTED* MODE
01. Monitoring	Monitors in real time energy consumption of the condo's electrical panel;	✓	✓
	Monitors in real time the energy consumed, in amperes, by the charging station;	✓	✓
	The HUB monitors the main service, transformers or any other critical component.		✓
02. Load shedding	Detects when total energy consumption exceeds 80% of the main circuit breaker's capacity and temporarily cuts power to the charging station;	✓	✓
	The HUB detects when the total energy consumption of the electrical infrastructure exceeds the predetermined maximum threshold, and modulates charging for all residents on an equitable basis.		✓
03. Powering back	Automatically powers back up the charging station when the total consumption of the electrical panel is below 80% of its capacity for more than 15 minutes;	✓	✓
	Automatically powers back up the charging station when the HUB detects that total consumption is below the maximum threshold of the electrical infrastructure;		✓
	Optimizes charging sessions to ensure optimal and equitable energy distribution among all residents.		✓

INCLUDED

Splitter box and electronic component

One (1) 30, 40, 50 or 60A double-pole breaker (depending on the model ordered)

Three (3) prewired current transformers (CT)

TECHNICAL SPECIFICATIONS

MODELS	BREAKER	MAIN POWER SUPPLY							
	EV charger	60A	70A	80A	90A	100A	125A	150A	200A
DCC-9+-30A	30A	✓	✓	✓	✓	✓	✓	×	×
DCC-9+-40A	40A	×	×	✓	✓	✓	✓	×	×
DCC-9+-50A	50A	×	×	×	×	✓	✓	×	×
DCC-9+-60A	60A	×	×	×	×	✓	✓	×	×
DCC-11+-30A	30A	×	×	×	×	×	×	✓	✓
DCC-11+-40A	40A	×	×	×	×	×	×	✓	✓
DCC-11+-50A	50A	×	×	×	×	×	×	✓	✓
DCC-11+-60A	60A	×	×	×	×	×	×	✓	✓

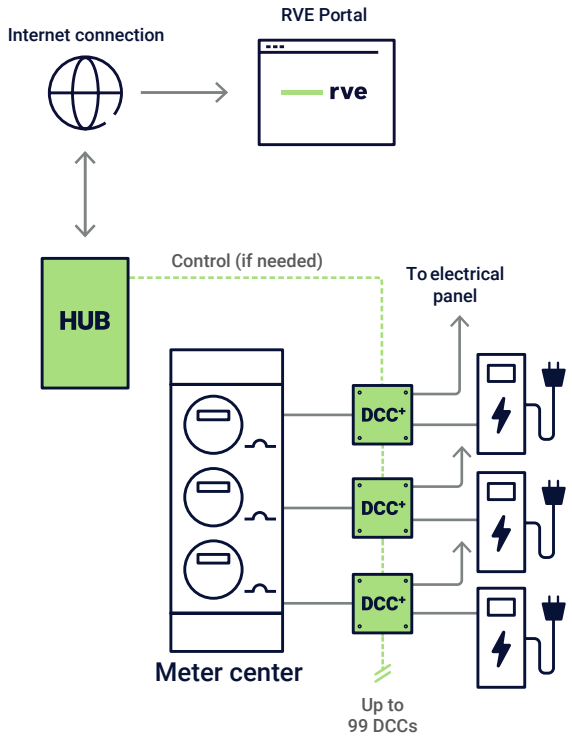
Voltage and wiring	240/208V AC single phase: L1, L2, Neutral, Ground.	
Terminals size	DCC-9+	up to 2/0 (CU/AL)
	DCC-11+	up to 300 MCM (CU/AL)
Frequency	50 to 60 Hz	
Operation temperature	-22°F to 113°F (-30°C to 45°C)	
Max torque	L1, L2, Neutral: 75 in-lbf / Ground: 50 in-lbf / Breaker terminals: 45 in-lbf	

Models	**Dimensions*** (H" x W" x D")	**Total weight***
DCC-9+	12" x 12" x 7.5"	17 lb (7,71 kg)
DCC-11+	16" x 16" x 8"	23 lb (10,43 kg)

*Approximative and can change without notice.
** See dip switch programming step in manual for more details.

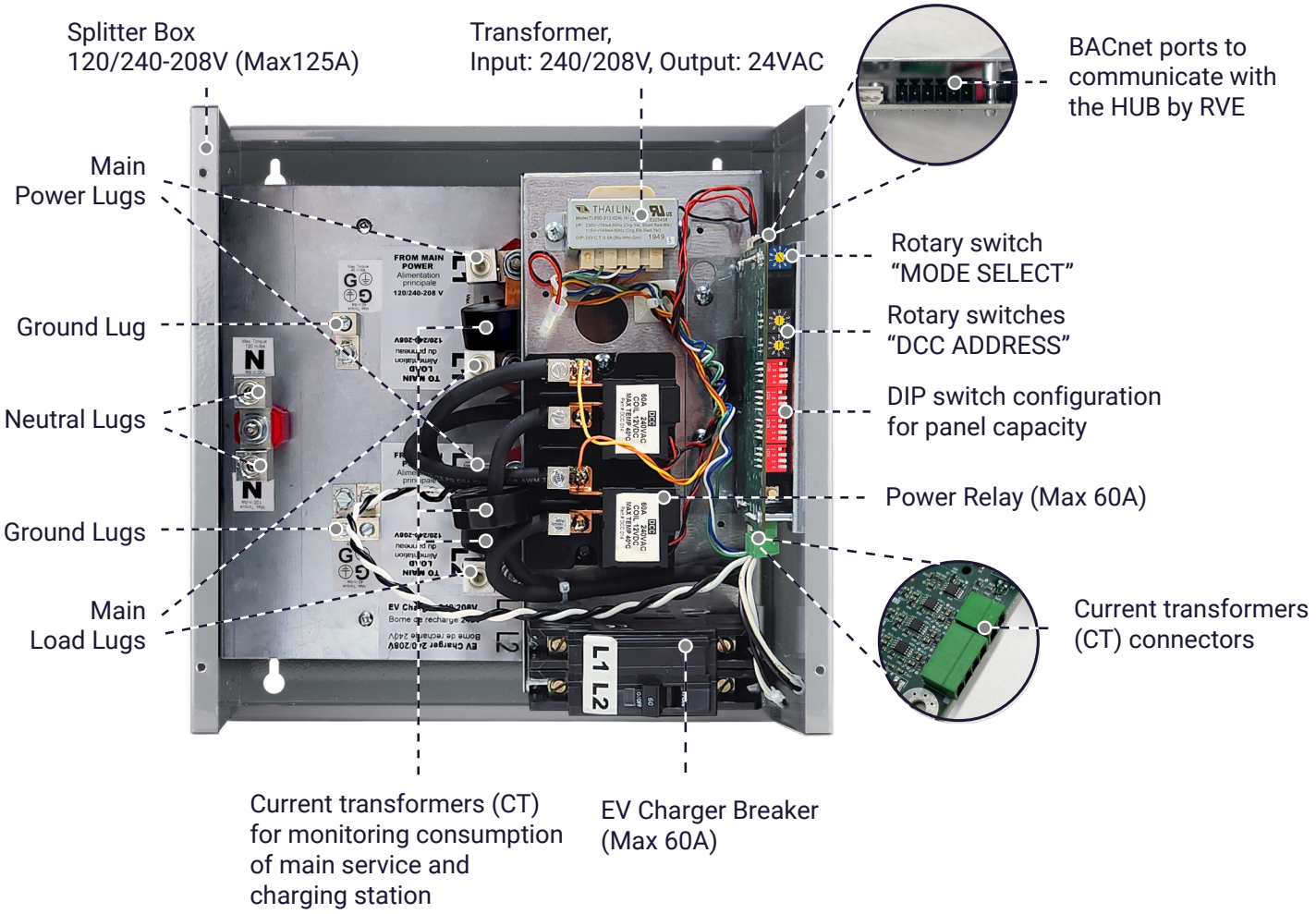
V1

CONFIGURATION EXAMPLES WITH THE HUB

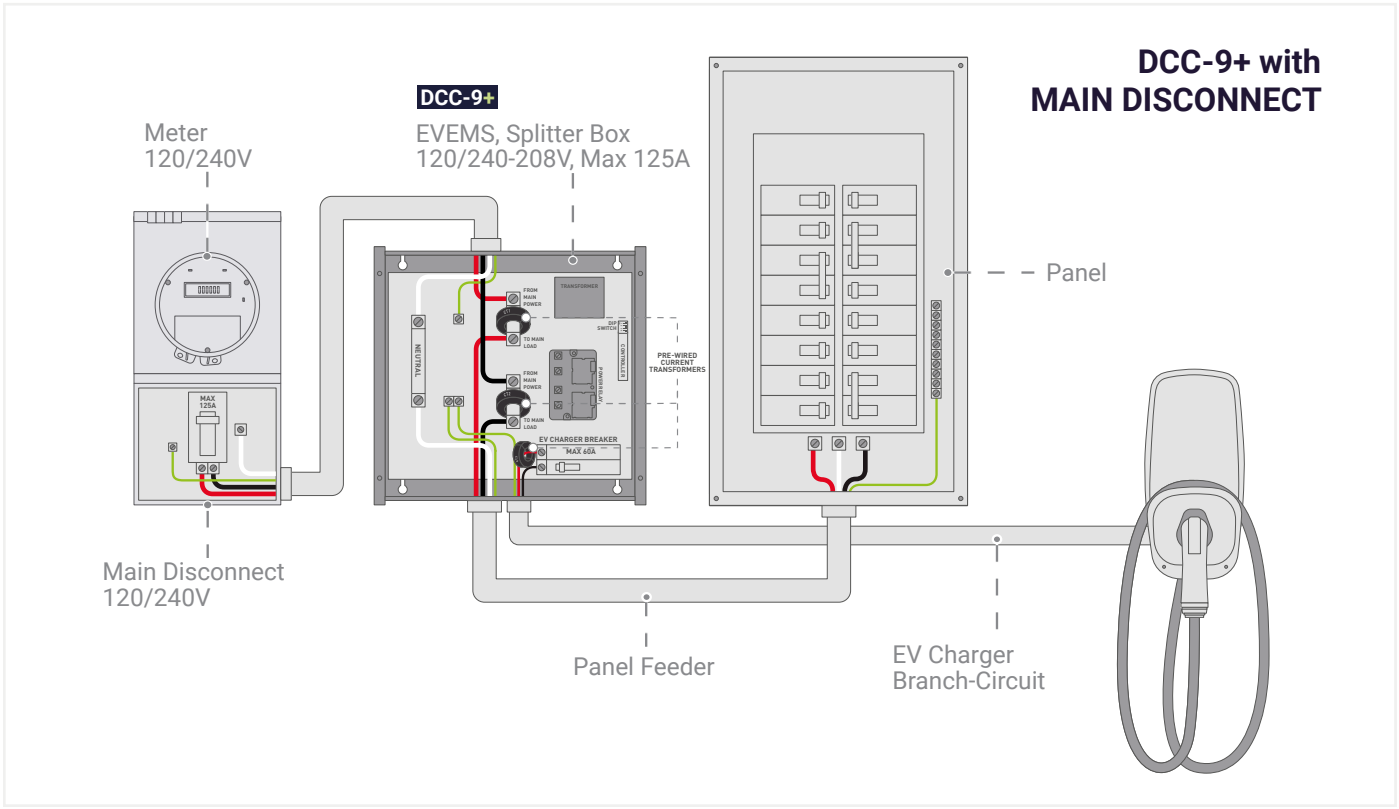


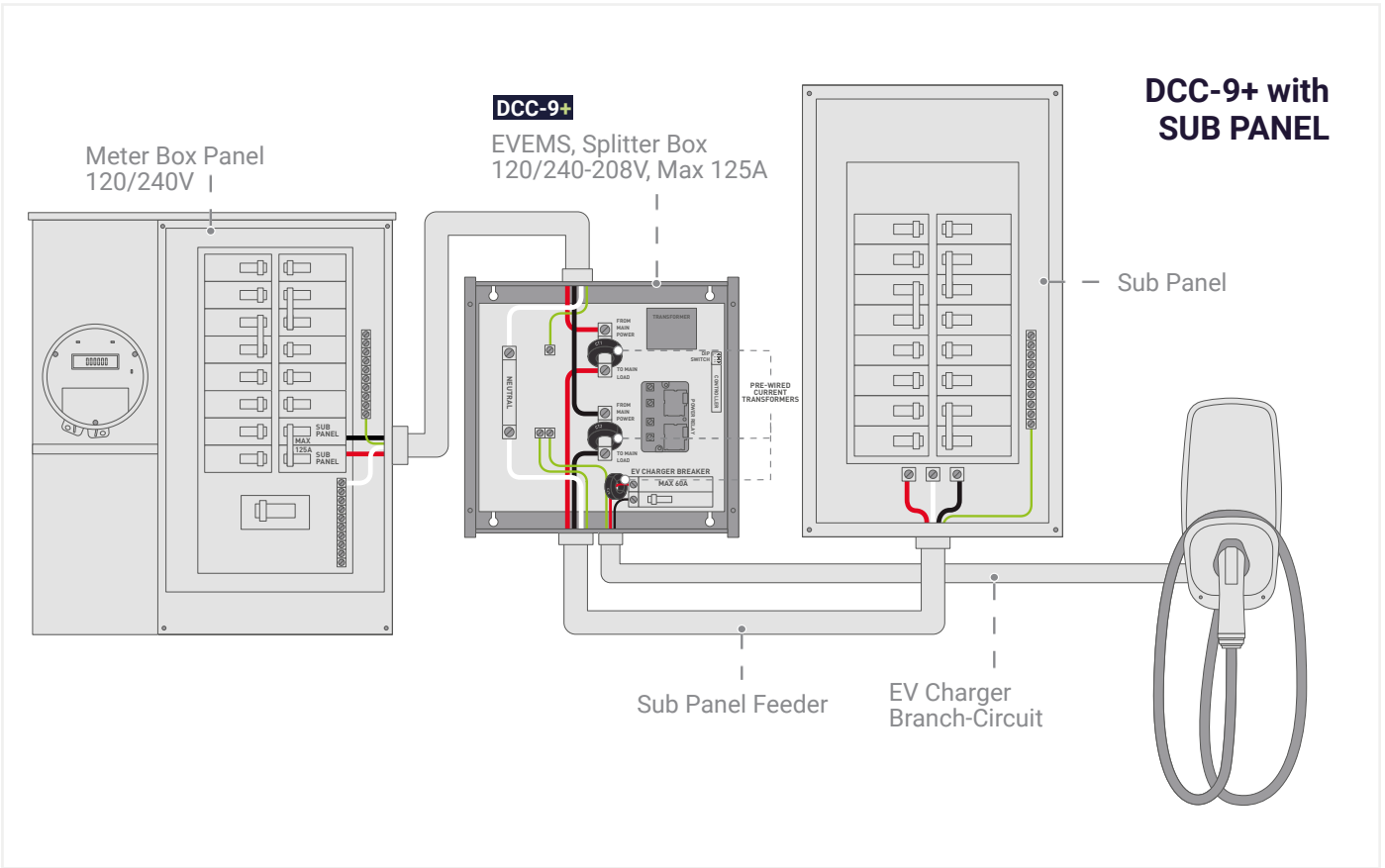
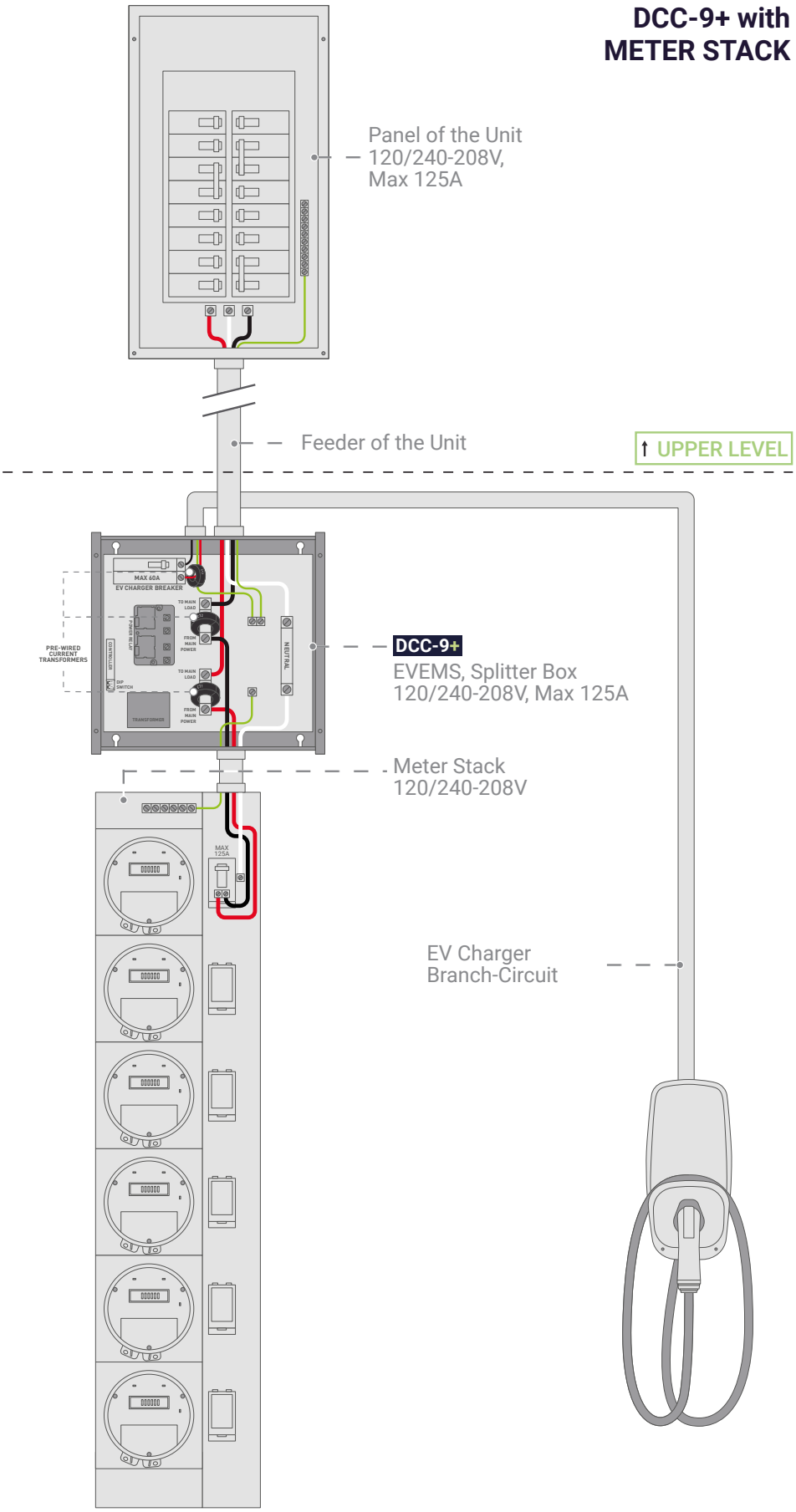
INTERNAL COMPONENTS

DCC-9+ **DCC-11+**



POSSIBLE CONFIGURATIONS





DCC-9+ with METER STACK