

- Direct-connect to PV Hybrid Inverter & Battery Energy Storage System (BESS)
- Charge EVs directly with DC, saving up to 25% lost in AC/DC conversions
- Fast charge at home, bypassing EV on-board AC/DC converter limitations as with AC-Level 2 EVSEs
- Bi-directional EV output for V2G, V2H & V2BESS operation
- 12.5kW & 25kW charge power options
- CCS-1 charge connector
- Residential & commercial configurations

DC Bi-Directional Fast DC EVSE

Charge without AC/DC conversion losses



Solar Carport-Coupled DC EVSE

Charge while the sun shines



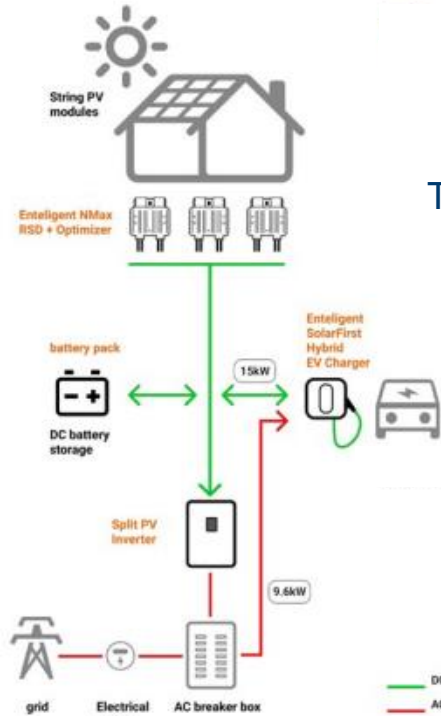
- Direct-connect to PV strings
- No PV inverters or electrical hookups
- Off-grid plug & play – same-day operation
- No trenching or utility permitting required
- Efficiently charge directly without wasteful & unnecessary AC/DC conversions
- 12.5kW DC charge power via CCS-1 connector
- Residential & commercial configurations
- Combat shading with optional Enteligent NMax Optimizers

Entelligent™ Hybrid Bi-Directional 25kW DC Fast EVSE



It's your energy. Use all of it.

- Simultaneously uses PV solar, BESS & AC grid inputs
- Charges 3X faster than AC Level 2 EVSEs at a fraction of the cost of DC EVSEs
- CCS-1 charging plug – supports EV bi-directionality
- V2H, V2G & V2BESS via PV inverter
- Saves up to 25% of electricity lost in AC/DC conversions
- Residential & commercial configurations



The Entelligent Difference

$$\begin{aligned}
 &\sim 16\text{kW} && \text{DC from solar PV modules and/or storage batteries} \\
 &+ \\
 &9.6\text{kW} && \text{AC (240V}_{AC} \text{ 40A) converted to DC} \\
 \hline
 &= 25\text{kW} && \text{DC fast EV charging}
 \end{aligned}$$

Hybrid Bi-Directional 25kW DC Fast EVSE Specification

Charging Specifications		
Charging Mode	DC 20 Fast Charging	
Maximum Power Output	24.8	kW
Output Voltage to EV	200 to 550	V _{DC}
Communication Interfaces	Wi-Fi, Ethernet, RS485, BLE, Cellular (optional)	
EV Connector	CCS Combo 1	
Cable Length	25 / 7.6	ft / m
DC Power Inputs		
Maximum Simultaneous DC Power Input	16	kW
I. PV Modules (PV Strings)		
Number of PV Strings	1 to 4	
Voltage	250 to 450	V _{DC}
Maximum Power	16	kW
II. Storage Batteries		
	PV Modules	
Voltage	100 to 600	V _{DC}
Maximum Power	16	kW
AC Power Inputs		
Voltage	120 to 264	V _{AC}
Maximum Power	9.6	kW
Bi-Directional DC Output		
Maximum Power from EV	24.8	kW
Voltage	400	V _{DC}

