



SolarEdge CSS-OD

Get ready for commissioning

September 2025 – Revision 1



One Controller

Pre-commissioning



One Controller Preparation:

1. Complete the intake form prior to final design: [CSS-OD intake form](#)
2. Pre-commission the One Controller to allow for a firmware update ahead of install
 1. Connect the device to the internet.
 2. Email Andrea Grosso (andrea.grosso@solaredge.com) pictures of the device ID and MAC address.
 3. Provide the site ID and inverter serial number for the PV installation

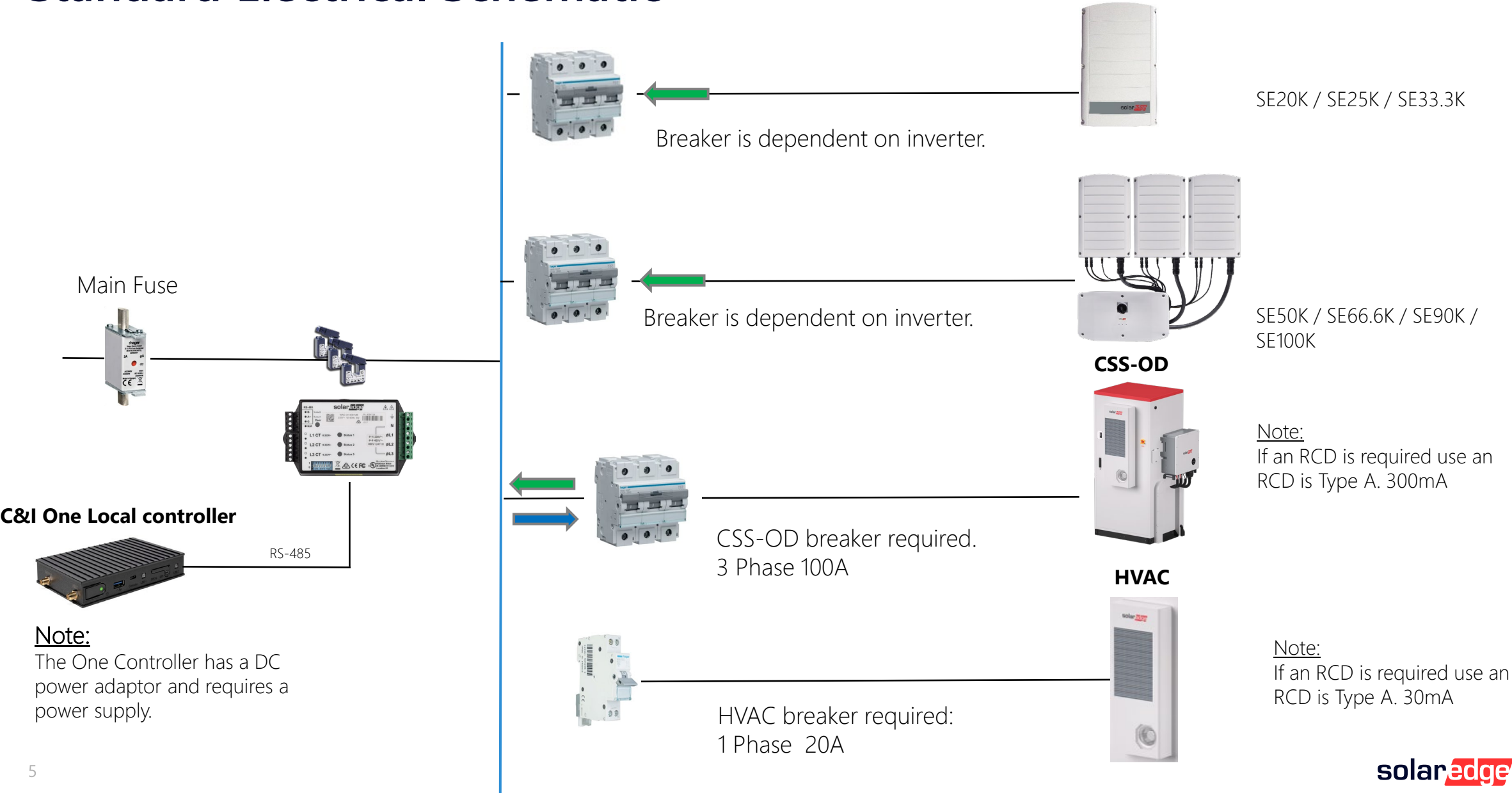


Note: If using a GSM router during the commissioning process of the CSS-OD, allow at least 1GB of data for the first month.

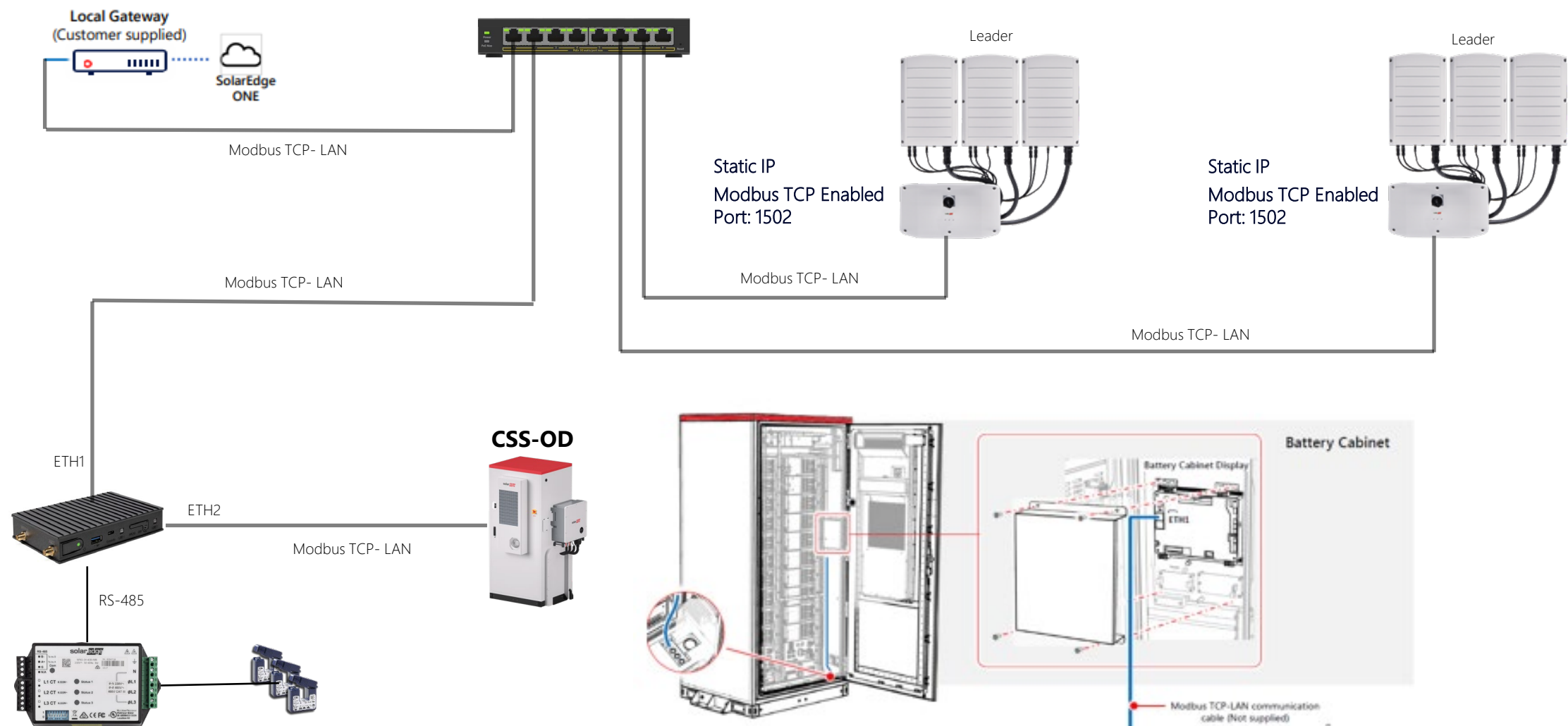
1 x 50kW PCS
1 x CSS-OD Battery Cabinet



Standard Electrical Schematic



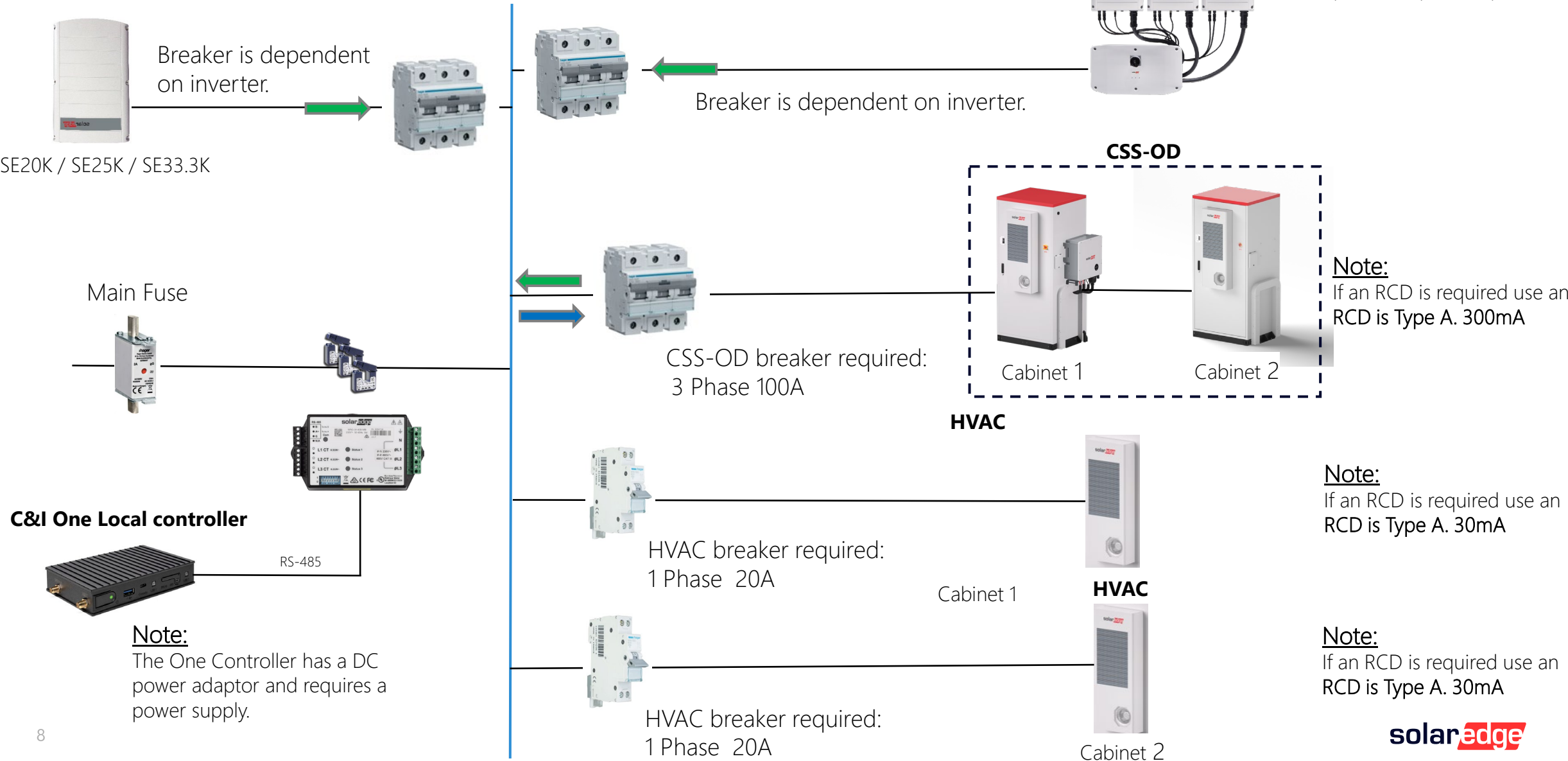
Standard Communication Schematic



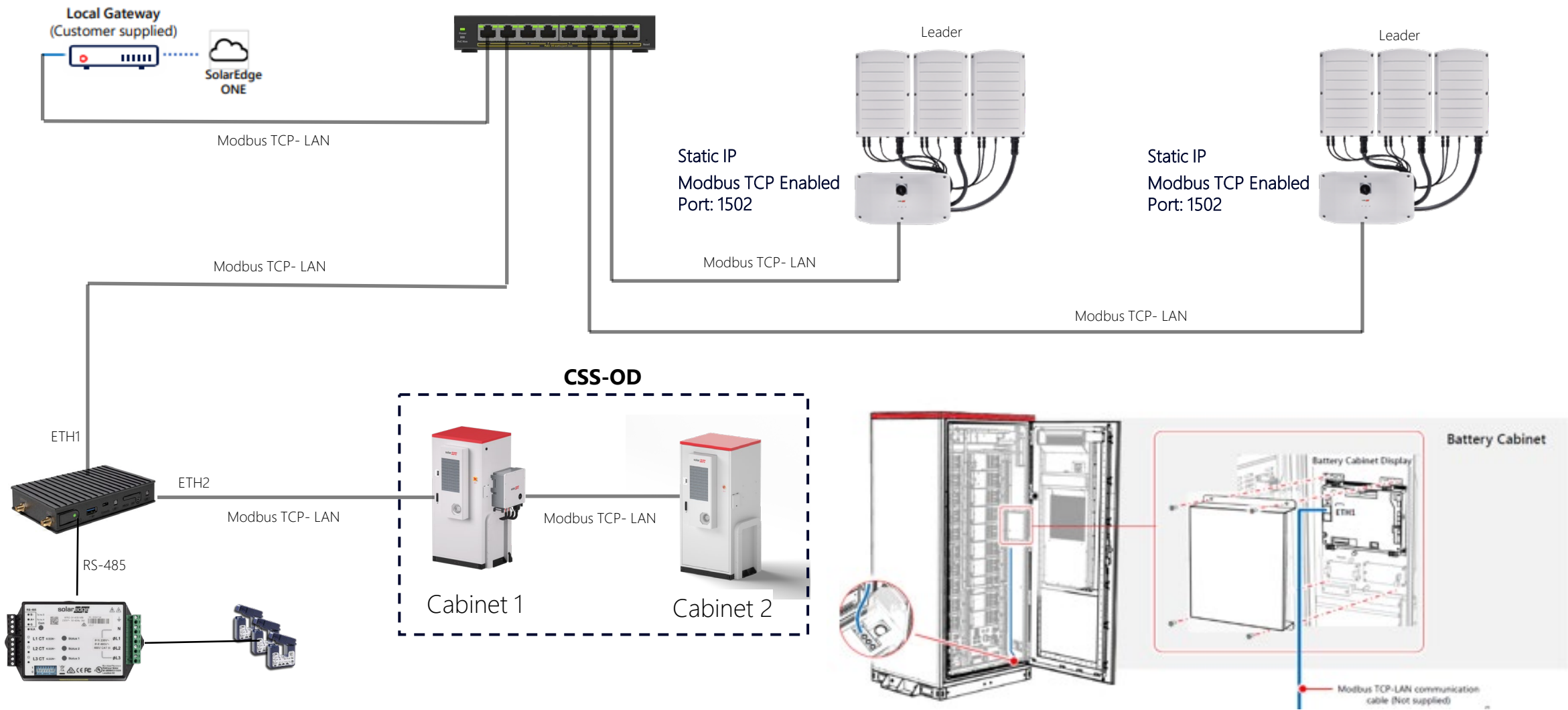
1 x 50kW PCS
2 x CSS-OD Battery Cabinet



Standard Electrical Schematic



Standard Communication Schematic



Multiple Cabinets Multiple Inverters

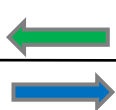


Standard Electrical Schematic

SE50K / SE66.6K / SE90K / SE100K



Breaker is dependent on inverter.



CSS-OD breaker required:
3 Phase 100A



Cabinet 1

CSS-OD breaker required:
3 Phase 100A



Cabinet 2

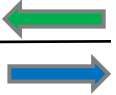
Cabinet 3

HVAC

Note:
If an RCD is required use an RCD is Type A. 300mA

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Main Fuse



HVAC breaker required:
1 Phase 20A



Cabinet 1

HVAC



HVAC breaker required:
1 Phase 20A



Cabinet 2

HVAC



HVAC breaker required:
1 Phase 20A

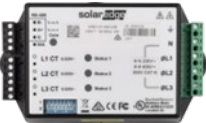


Cabinet 3

HVAC

Note:
If an RCD is required use an RCD is Type A. 30mA

C&I One Local controller



RS-485

Note:
The One Controller has a DC power adaptor and requires a power supply.

Standard Communication Schematic

