

SolarEdge CSS-OD

Configuration Guide for Distributors and Installers

United Kingdom

Version 1 August 2024

The CSS-OD battery cabinet and integrated 50kW inverter are designed for easy installation to reduce time on site, and include advanced battery safety technology for maximum system protection.

Powered by SolarEdge ONE, the CSS-OD enables optimized energy production and consumption for a wide range of sectors and needs.



10
YEAR
WARRANTY

CSS-OD

Battery Cabinet and Battery Inverter



- / 102.4kWh (rated)/50kW, scalable > 1MWh
- / Rated for outdoor & indoor use
- / 10-year warranty for system and 6000 cycles performance warranty, from a bankable vendor
- / Pre-assembled cabinet for minimal on-site work
 - Fast deployment
 - Reducing installation errors
- / Advanced safety
 - Fire detection & double layer of suppression
 - Built in AC + DC SPDs
 - O&M and alerting via SolarEdge ONE and Go
- / Built-in HVAC
- / Two-cluster design for resiliency
- / Weight: 1.5T

CSS– OD: Product Descriptions

- 50kW PCS050 Battery Inverter: Part Number PCS050-RW-400V-A01-01

A 50kW Power Conversion System (PCS) or bi-directional inverter that charges and discharges the storage system. The maximum charge and discharge rate is 50kW.

- 102.4kWh Battery Cabinet: Part Number CSS-OU-O1-20-CA-B01-01

A battery cabinet containing 102kWh of storage capacity. The cabinet has a dedicated HVAC system and fire suppression system. A maximum of 2 battery cabinets can be connected to a 50kW PCS.

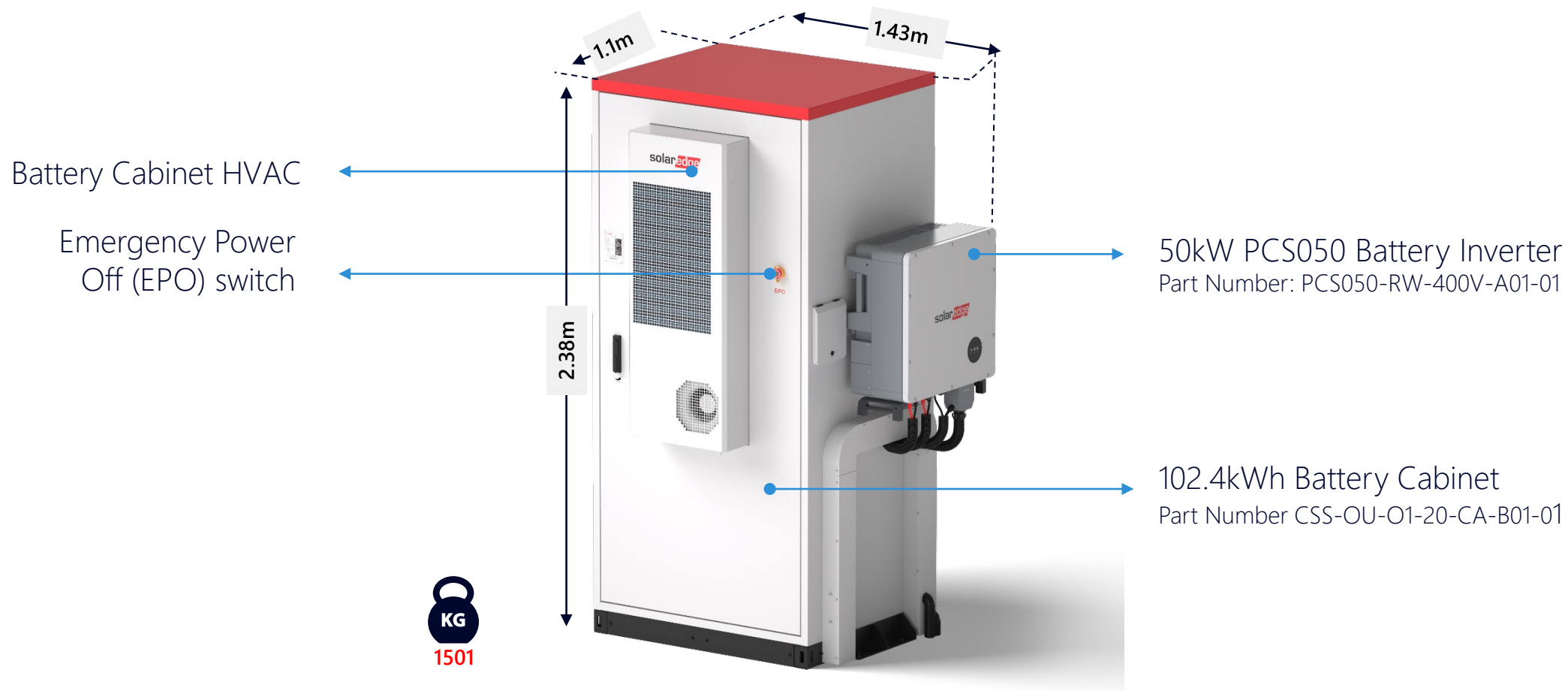
- Cable extension kit: Part Number CSS-O1-C-B01-01

Required if 2 battery cabinets are to be connected to a single 50kW PCS050

- ONE controller for C&I: Part Number ONE-CLC1-RWWB0-A

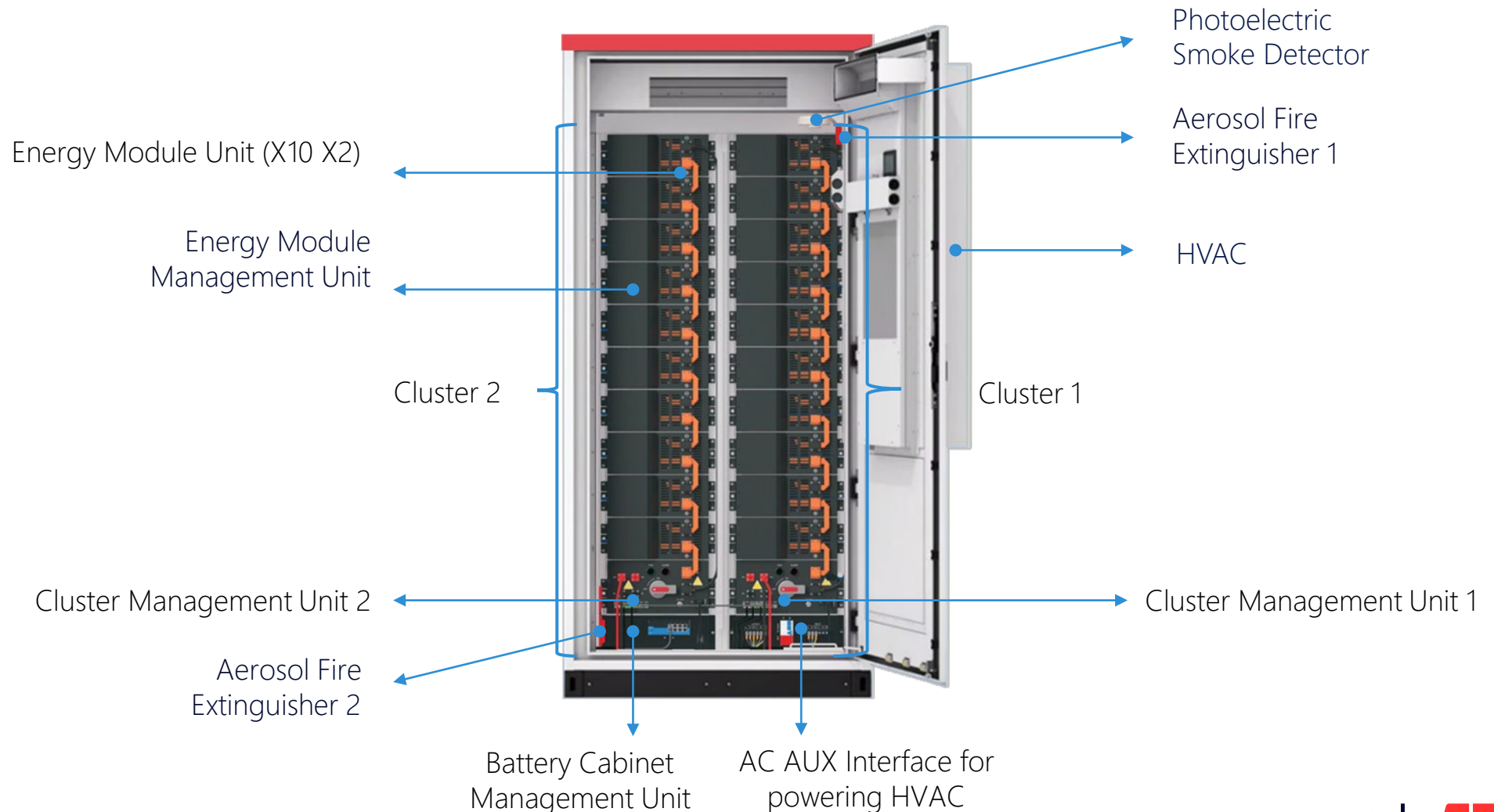
On site controller that integrates and ensures the communication of the site's energy assets including CSS-OD, existing SolarEdge inverter and energy meters. A single One Controller for C&I is need per site where the CSS-OD is installed. The SolarEdge Energy Meter must be installed onsite also.

CSS– OD: External Structure



CSS– OD: 102.4kWh Battery Cabinet Internal Structure

All components are supplied under the part number CSS-OU-O1-20-CA-B01-01



SolarEdge ONE Controller



On site hardware that integrates and ensures the communication of the site's energy assets, including energy meters, inverters, EV chargers & building loads

- / Required on all sites the CSS-OD
- / Optimizes use of locally generated energy, to minimize energy charges
- / Interfaces with third-party sensors and platforms
- / Integrated with SolarEdge environmental sensors and energy meters
- / Complies with grid regulations to enable safe, reliable electricity generation (PPC)
- / A cyber-secure gateway for external communications, designed to protect from unauthorized access

Example Configurations:

50kW PCS with 102kWh of storage (2hrs)



Parts list required:

- 1 x PCS050-RW-400V-A01-01
- 1 x CSS-OU-O1-20-CA-B01-01
- 1 x ONE-CLC1-RWWB0-A

50kW PCS with 204kWh of storage (4hrs)



Parts list required:

- 1 x PCS050-RW-400V-A01-01
- 2 x CSS-OU-O1-20-CA-B01-01
- 1 x ONE-CLC1-RWWB0-A
- 1 x CSS-O1-C-B01-01

Example Configurations:

150kW PCS with 306kWh of storage (2hrs)



Parts list required:

3 x PCS050-RW-400V-A01-01

3x CSS-OU-O1-20-CA-B01-01

1 x ONE-CLC1-RWWB0-A

Example Configurations:

250kW PCS with 918kWh of storage (2hrs)



Parts list required:

5 x PCS050-RW-400V-A01-01

9x CSS-OU-O1-20-CA-B01-01

1 x ONE-CLC1-RWWB0-A

4 x CSS-O1-C-B01-01

Useful links

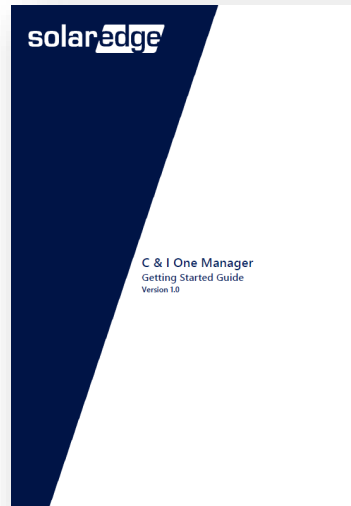
[CSS-OD Datasheet](#)



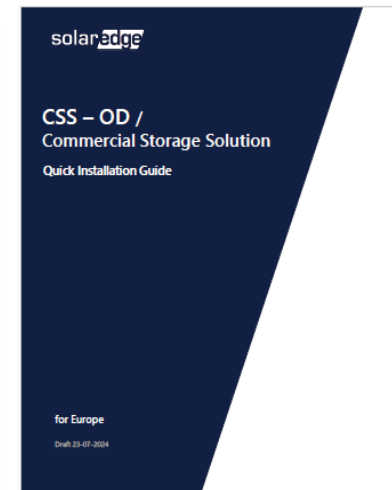
[ONE controller datasheet](#)



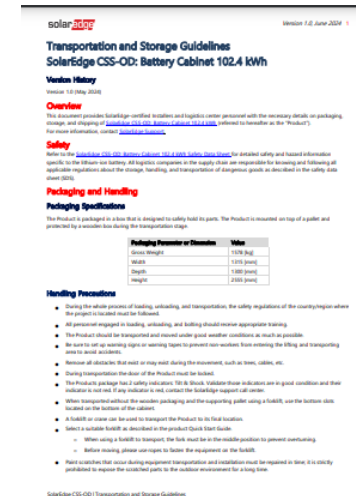
ONE for C&I
Getting started -
Pending



CSS-OD
Quick install guide -
Pending



[Transportation and storage guidelines](#)





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Thank You