SINOMACH | MÄC VOLT

EASYCUBE Series 215kWh Commercial & Industrial ESS

SMT-ESS-CUBE215CE

The product is an integrated energy storage device designed to meet commercial and industrial energy storage needs. With a modular design adopted, the product offers flexible expansion and easy installation, operation and maintenance. The cabinet has multiple security design, with the fire protection system supporting perfluorohexane, secondary AC-side lightning protection, integrated emergency stop (E-STOP), insulation detection and protection, water immersion protection, and other safety functions to ensure product safety. The product integrates both liquid cooling and air cooling systems, features EMS functions, and supports photovoltaic access and various EMS energy strategies. Moreover, it adapts to different scenarios such as photovoltaic consumption, peak-valley arbitrage, demand control, and electricity market trading, and contribute to the development of commercial and industrial energy storage.

Product Features

- MPPT function; PV access supported
- Modular design, flexible expansion, and easy operation and maintenance
- High energy density, small volume, and convenient installation and transportation
- 100% unbalanced load and 110% long-term overload supported
- Adjustable output power, configurable charging and discharging power, strong adaptability
- Local HMI and cloud management, and remote upgrades supported

Data Center

Commercial Buildings

Industrial Parks

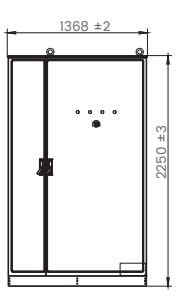
PV, Storage & Charging Integration

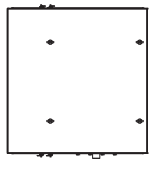
Distribution Grid Expansion

Technical Data

Product Type	SMT-ESS-CUBE215CE
Battery Parameters	
Nominal Capacity (kWh)	215
Rated Voltage (V)	768
Cell Type (V/A)	3.2/280,LFP
Pack Configuration	1P48S
Rack Configuration	(1P48S)*5S
Rated Power (kW)	100
PV Input Parameters	
Rated Input Power	50kW *2
MPPT Voltage Range (V)	300-650
MPPT Quantity	2
Rated Current	160A *2
Grid-connected Output Parameters	
Rated Grid Voltage (V)	400
Grid Frequency (Hz)	50/60
Rated Output Power (kW)	100
Maximum Output Power (kW)	110
Rated Output Current (A)	145
Current THD	≤3%
Power Factor	-0.99~+0.99
Off-grid Output Parameters	
Off-grid Output Voltage (V)	400
Off-grid Output Frequency (Hz)	50/60
Off-grid Apparent Power (kVA)	100
Voltage THD (%)	≤3
Unbalanced Load Capacity (%)	100
Basic Parameters	
System Efficiency	≥87%, @0.5P,25°C
Thermal Management	PCS, DC/DC: forced air cooling Battery: liquid cooling
Fire Protection	Aerosol + FK-5-1-12
Communication Mode	CAN//Eth/RS485
Human-Machine Interaction	Indicator light + Touch Screen + Cloud Platform
Access Mode	Three-phase Four-wire
Isolation Mode	Non-isolated
Operating Temperature (°C)	-25~+50
Operating Humidity (%)	0 ~ 95RH
Storage Temperature (°C)	-30~+60
Operating Altitude (m)	2000
Level of Protection	IP54
Anti-corrosion Grade	C4-M
Dimension (W*D*H) mm	1368*1416*2250
Weight (kg)	2700

Installation Dimensions





Installation Dimension: W*D*H (mm)

1368*1416*2250

Circuit Diagram