Integrated optical storage cabinet

The optical storage integrated machine integrates photovoltaic controllers and bidirectional converters to achieve an integrated solution of "light+energy storage".

The system adopts modular design, which can achieve flexible configuration of photovoltaic, battery, and load. Prioritize the allocation of photovoltaic energy to energy storage batteries or load power supply through intelligent algorithms to meet the needs of multiple scenarios on the user side.

Multiple operating modes

Grid connected operation
The AC side of the optical storage integrated machine is connected to the power grid to achieve grid connected power generation

Off grid operation
In the absence of a power grid, the optical storage integrated machine can use a combination of photovoltaic and energy storage batteries to power the load

Intelligent and offline switching
In grid connected mode, the system automatically operates in grid connected or off grid mode by determining whether there is grid connection

Features

Wide functionality
The system integrates PCS mode, spontaneous self use mode, peak power compensation mode, and other operating modes; Modular system design enhances the diversity of photovoltaic, battery pack, and load coordination; Can accept power grid dispatch, including communication methods such as RS485 and CAN; Equipped with low voltage ride through and reactive power compensation functions;
Green and efficient
Equipped with MPPT photovoltaic maximum power tracking function, ensuring greater utilization of solar energy; Three level control technology to improve efficiency and power quality; Photovoltaics can directly charge the battery, improving system efficiency;
Safe and reliable
Adopting AC and DC dual input redundant power supply to ensure stable operation of the control power supply; 100% unbalanced load capacity during off grid operation; 105% rated output power can operate for a long time; Off grid inverter function, forming a microgrid system to ensure uninterrupted power supply;

Specification

Cooling method: intelligent air cooling
Phase number: three-phase four wire, optional
Rated voltage for AC measurement: 400V, AC
Rated power: customized
Rated energy: customized
Does it include isolation transformer? Yes
Optional offline function: supported
Fire protection system: heptafluoropropane
Optional battery type: LFP
Rated charging and discharging rate: 0.5C, 0.5-1
Cloud data: Yes
Optional protection level: IP54
Customizable usage environment: indoor, indoor/outdoor
Battery life: 6000 cycles, 100% DOD
Photovoltaic access: Yes

Rates

SPGLS-PCS50
MPPT：50KW
PCS：50KW
（W*D*H):600*1000*2000mm

SPGL-SPCS100
MPPT：100KW
PCS：100KW
（W*D*H):1200*1000*2000mm

SPGL-SPCS150
MPPT：150KW
PCS：150KW
（W*D*H):1200*1000*2000m

MPPT voltage range: DC200V~DC700V
MPPT full power voltage range: DC370V~DC700V
Number of MPPT paths: 50W:1,100W:2,150W:3
Single channel rated current: 135A