

Commercial ESS

Hi-COM

30kW / 92kWh Commercial Energy Storage System

Hi-COM is an ideal Energy Storage System solution for Commercial & Industrial users. It is modular in design and compatible with multiple inverter selections, integrated installation and maintenance, the system can monitor and process AC and DC side operating data and local environmental data in real time, and to enable applications such as peak shaving, valley filling, off-grid backup power supply, and photovoltaic energy connection.



- Dynamic capacity increase
- Peak shaving and valley filling
- Micro grid
- Off-grid backup
- Photovoltaic energy supporting

Features

- ALL IN ONE DESIGN, Small size and high integration
- Easy setting of user-defined operating mode
- Support on-grid and off-grid switching
- Support the installation and access point of microgrid energy equipment
- Comprehensive energy management, real-time dynamic operation monitoring
- AI cloud computing data processing, intelligent management and control

Specifications

Hi-COM 30kW / 90kWh	
Project	System parameters
Total energy	92kWh, 25°C@0.5c rated
External dimensions	2300*1300*800 (H*W*D)
weight	About 1.6T
Rated DC side voltage	768V
DC side working voltage	672~864V
Sustainable charging power	30kW
Sustainable discharge power	30kW
Conversion efficiency	DC side ≥94% (25°C, 0.5C)
AC maximum discharge current	Current: 45A
Operating environment	Below 2000 meters above sea level
Thermal management	HVAC 3.5kW forced air cooling
On-off-grid method (optional)	Manual / Auto
AC output	3P+N+PE
Rated AC voltage	380V
DC side maximum efficiency	≥96% (0.33C DC side energy efficiency)
Fire extinguishing method	Aerosol automatic fire extinguishing
System protection level	IP54
Operating environment	-20°C - 50°C (power derating above 45°C)
DC side	System parameters
Standard	768V
Operating voltage range	DC 672-876V
Nominal weight	About 1.6T
Nominal energy	92kWh
Maximum charging voltage of single cell	3.65V
Single minimum discharge voltage	2.5V
Discharge overcurrent protection current	100A@5S
Grid-connected parameters	
Output wire system	3L+N+PE
rated power	30kW
Rated voltage	AC380V
Maximum current	45A
voltage range	-15% ~ +15%
Rated frequency	50Hz
Frequency Range	Rated frequency ±3Hz
Power factor	-1 ~ +1
AC off-grid parameters	
Output wire system	3L+N+PE
Rated power	30kW
Rated voltage	AC380V
Rated frequency	50Hz
Maximum current	45A
Voltage accuracy	1%
Frequency accuracy	0.2Hz
Input adjustment rate	1%
Load Regulation	1%
Output harmonics	3%@linear full load
Dynamic Response	60ms@100% linear load
Unbalanced load capacity	100%



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