



Energy Storage Products Brochure



01

Stackable energy storage battery with built-in inverter



Model:

HS-TQS4.2KW+7.168KWh

Product Type: Hybrid Inverter

PV Input

Max. PV Input Power: 5000W
 Max. DC Input Voltage: 500Vdc
 Max. Input Current: 18A
 MPPT Voltage Range: 40V-450V

AC Input

Nominal Operating Voltage: 230Vac
 Nominal Operating Frequency: 50/60Hz
 Max. Input Current: 20A

AC Output

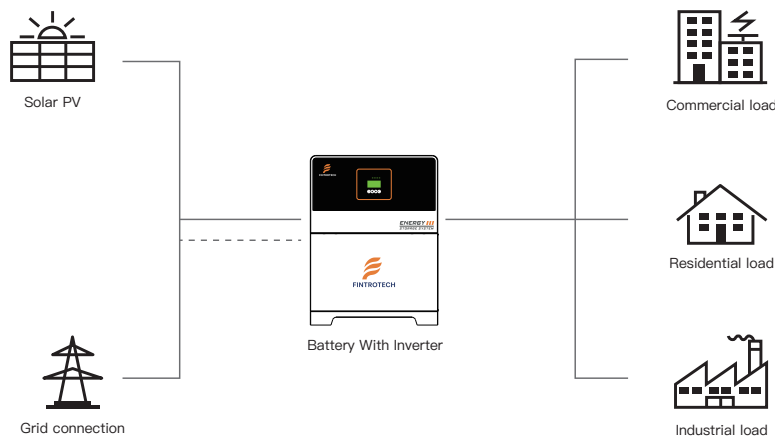
Rated Output Power: 4200VA/4200W
 Nominal AC Output Voltage: 208/220/230/240Vac
 Nominal AC Frequency: 50/60Hz
 Surge Power(3 seconds): 5400VA
 Nominal AC Output Current: 16.3A

Battery

Rated Voltage: 25.6V
 Rated Capacity: 280Ah
 Rated Energy: 7168Wh
 Voltage Range: 22.4-28V
 Charge Voltage Range: 28-28.8V
 Cut-off Voltage: 22.4V
 Recommend Charge Current: 50A
 Max Charge Current: 100A
 Max Discharge Current: 150A

General

Temperature: -10°C ~ +55 °C
 Protective Class: Class I
 Ingress Protection: IP31



Model:

HS-TQS5KW+14.336KWh

Product Type: Hybrid Inverter

PV Input

Max. PV Input Power: 6000W
 Max. DC Input Voltage: 500Vdc
 Max. Input Current: 20A
 MPPT Voltage Range: 120V-430V

AC Input

Nominal Operating Voltage: 230Vac
 Nominal Operating Frequency: 50/60Hz
 Max. Input Current: 40A

AC Output

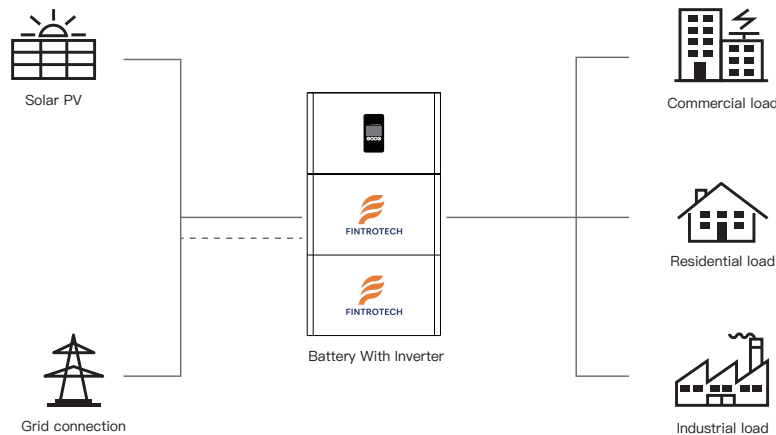
Rated Output Power: 5500VA/5500W
 Nominal AC Output Voltage: 208/220/230/240Vac
 Nominal AC Frequency: 50/60Hz
 Surge Power(3 seconds): 8250VA
 Nominal AC Output Current: 25A

Battery (connect in series)

Rated Voltage: 51.2V
 Rated Capacity: 280Ah
 Rated Energy: 14336Wh
 Voltage Range: 44.8-56V
 Charge Voltage Range: 56-57.6V
 Cut-off Voltage: 44.8V
 Recommend Charge Current: 50A
 Max Charge Current: 100A
 Max Discharge Current: 150A

General

Temperature: -10°C ~ +55 °C
 Protective Class: Class I
 Ingress Protection: IP31



02

Energy storage battery & inverter



NEW



Model:

HS-LD25280-LED

Rated Voltage: 25.6V

Rated Capacity: 280Ah

Rated Energy: 7168Wh

Recommended Charge Current: 80A

Maximum Charge Current: 100A

Recommended Charge Voltage: 29.2V

Continuous Discharge Current: 100A

Maximum continuous Discharge Current: 200A

Discharge Cut-Off Voltage: 20V

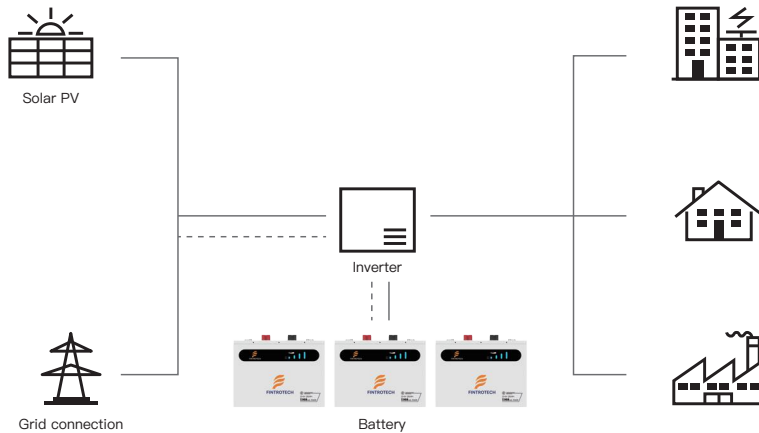
Dimension: L464*W273*H340mm

Weight: \approx 53.8kg

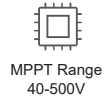
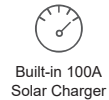
Terminal Type: M8

Cycle Life: >6000 (0.5C@ 25°C, 80% DOD)

Certificate: CE,FCC,RoHs,MSDS,UN38.3



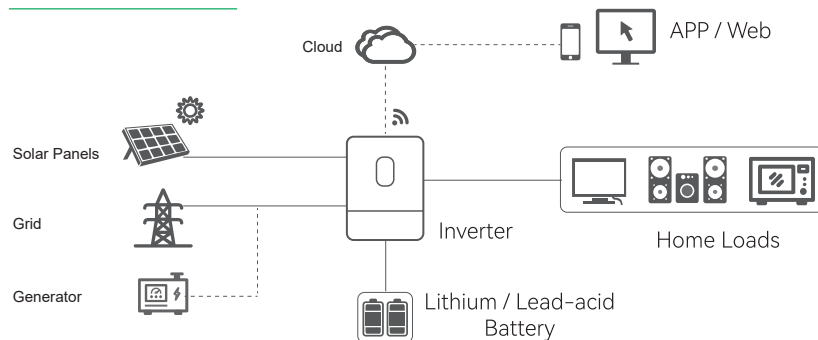
Model:

Model: PV5000-24

BMS

Support Lithium/
Lead-acid Batter

System Diagram



AC Input	
Rated Input Voltage (VAC)	208 / 220 / 230 / 240; L + N + PE
Voltage Range (VAC)	90~280±3 (normal mode); 170~280 ± 3 (UPS mode)
Frequency (Hz)	50 / 60 (Auto Adaptive)
AC Output	
Rated Capacity (kW)	4.2
Surge Power (kVA)	5.7
Voltage (VAC)	208 / 220 / 230 / 240
Power Factor (PF)	1
Frequency	50/60Hz±0.1%
Switch Time (ms)	10 (normal mode) / 10 (UPS mode)
Wave Form	Pure Sine Wave
Overload Capacity (Batter Mode)	60s@102%~110% load; 10s@110%~130% load; 3s@130%~150% load; 0.2s@>150% load
Max. Efficiency (Batter Mode)	92.7%@24VDC
Parallel Quantity	NA
Charger (PV / AC)	
Solar Charger Type	MPPT
Max PV input Current / Input Power	18A / 5000W
MPPT Range@Operating Voltage (VDC)	40~450
Max PV Open Circuit Voltage (VDC)	500
Max PV Charge Current (A)	100
Max AC Charge Current (A)	100
Max. Charge Current (PV + AC)(A)	100
Battery	
Rated Voltage (V)	24
Floating Charge Voltage (VDC)	27
Overcharge Protection (VDC)	30.5
Battery Type	Lithium and Lead-acid
Interface	
HMI	LCD
Interface	RS485 / RS232 / USB / Dry Contact
Monitoring	WiFi (Optional)
General Data	
Ingress Protection	IP20
Operating Temperature	-10 C ~ 50 C
Relative Humidity	5% ~ 95% (Non-condensing)
Storage Temperature	-15 C ~ 60 C
Net Weight (kg)	8
Dimensions (W*H*D)	490*306*115mm (without bracket)
Max. Operating Altitude	4000m (Derating above 1000m)

Model:

Model: HS-PV11000-48



Dual Outputs



Lithium Battery Activation



PF=1.0



PV 60-500Vdc



Dual MPPT



Parallel 6 units



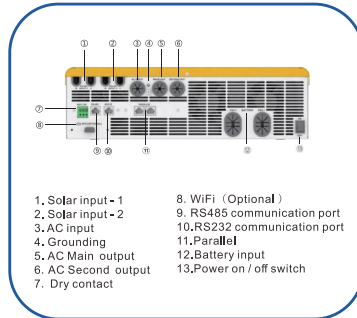
Pure sine wave



RS232 RS485

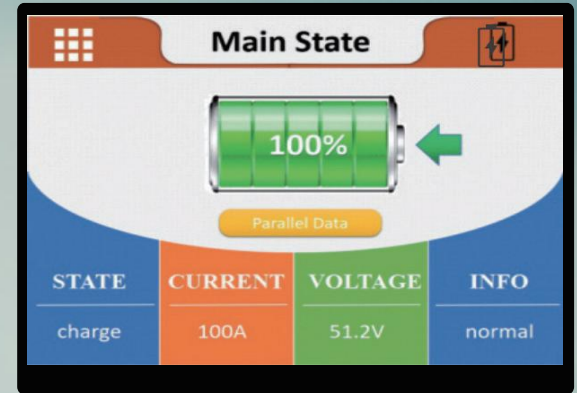
Product Features

- Dual AC output
- Built-in 2 MPPT
- Parallel max up to 6 units
- Lithium battery activation function by PV or Utility
- Compatible work with LiFePO4 battery via RS485
- Pure Sine Wave
- Power factor 1.0
- PV Input 500Vdc Max
- Built-In MPPT 140A/160A
- Capable to work without battery
- Detachable dust cover for harsh environment
- Wifi remote monitoring optional
- Support multiple output priority: SUB, SBU, SUF
- EQ function to optimize battery performance and extend lifecycle



MODEL	HS-PV11000-48
CAPACITY	11KVA/11KW
Maximum PV Input Power	11KW
Twin AC Output Function	YES
Maximum Main Output Power	11KVA/11KW
Maximum Second Output Power	5.5KVA/5.5KW
Maximum Total Output Power	11KVA/11KW
Parallel Capability	YES, 6units
Lithium Battery Communication	YES(RS485)
Lithium Battery Activation	YES(By PV or Utility)
Built-in WIFI	Optional
INPUT	
Nominal Voltage	230VAC
Acceptable Voltage Range	170-280VAC(For personal Computer);90-280VAC(For Home Appliances)
Frequency	50/60 Hz (Auto sensing)
OUTPUT	
Nominal Voltage	220/230/240VAC
Surge Power	22000VA
Frequency	50/60 Hz
Waveform	Pure Sine wave
Transfer Time	10ms(For personal Computer);20ms(For Home Appliances)
Peak Efficiency (PV to INV)	96%
Peak Efficiency (Battery to INV)	93%
Overload Protection	5s@ > =140% load; 10s@ 110%~140% load
Crest Factor	3:1
Admissible Power Factor	0.6~1 (inductive or capacitive)
BATTERY	
Battery Voltage	48VDC
Maximum Discharge Current	220A
Floating Charge Voltage	54VDC
OverCharge Protection	63VDC
Charging Method	CC/CV
Solar Charger & AC Charger	
Solar Charger TYPE	MPPT
Max. PV Array Power	5500W*2
Max. PV Array Open Circuit Voltage	500VDC
PV Array MPPT Voltage Range	60VDC~500VDC
Max. Solar Input Current	18A*2
Max. Solar Charge Current	160A
Max. AC Charge Current	120A
Max. Charge Current	160A
PHYSICAL	
Dimensions, D x W x H(mm)	540*415*122
Net Weight (Kgs)	15.5
Communication Interface	RS232/RS485/Dry-contact
LCD	YES
ENVIRONMENT	
Operating Temperature Range	-10°C to 55°C
Storage temperature	-15°C~ 60°C
Humidity	5% to 95% Relative Humidity (Non-condensing)
Ingress Protection	IP21

3.5-inch touch screen series





Model:

HS-BG25100

Rated Voltage: 25.6V

Rated Capacity: 100Ah

Rated Energy: 2560Wh

Voltage Range: 22.4-28V

Charge Voltage Range: 28-28.8V

Cut-off Voltage: 22.4V

Recommend Charge Current: 50A

Max Charge Current: 100A

Max Discharge Current: 100A

DimensionL*W*H: 400*207*464

Weight: ≈29.3kg

Communication Port: RS485、CAN

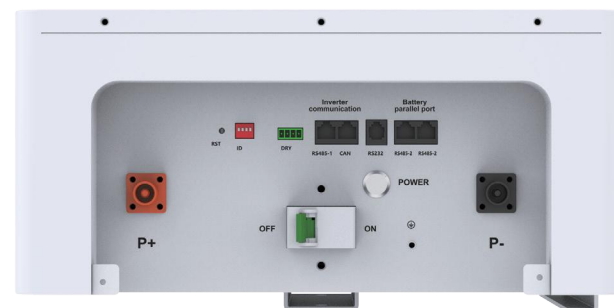
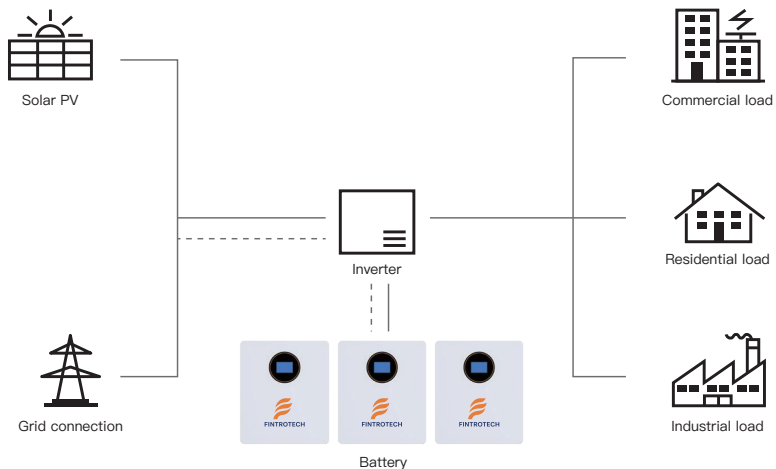
Display: 3.5-inch touch screen

Terminal: Plug-in

Cycle Life: >6000 (0.5C@ 25°C, 80% DOD)

Compatible inverter: Growatt, Goodwe, Sol-Ark, SRNE, DEYE

Certificate: CE, FCC, RoHS, MSDS, UN38.3

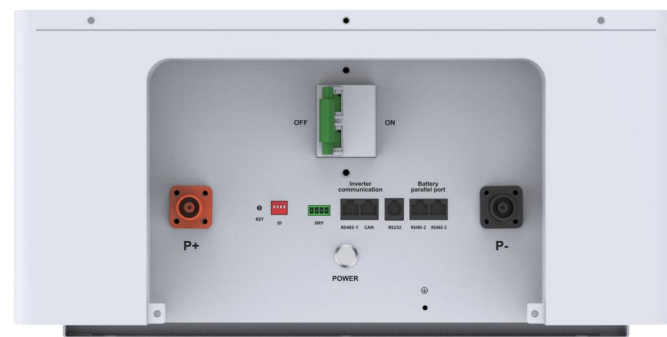
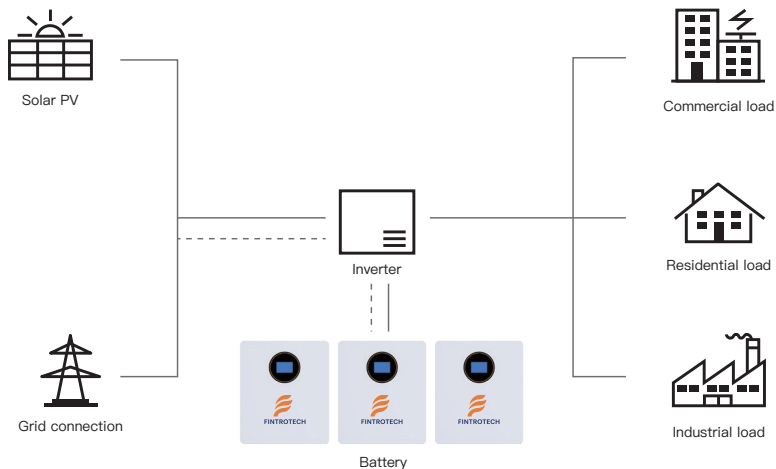




Model:
HS-BG25200

Rated Voltage: 25.6V
 Rated Capacity: 200Ah
 Rated Energy: 5120Wh
 Voltage Range: 22.4-28V
 Charge Voltage Range: 28-28.8V
 Cut-off Voltage: 22.4V
 Recommend Charge Current: 100A
 Max Charge Current: 200A
 Max Discharge Current: 200A

Dimension L*W*H: 500*257*475.5
 Weight: ≈54.2kg
 Communication Port: RS485、CAN
 Display: 3.5-inch touch screen
 Terminal: Plug-in
 Cycle Life: >6000 (0.5C@ 25°C, 80% DOD)
 Compatible inverter: Growatt, Goodwe, Sol-Ark, SRNE, DEYE
 Certificate: CE, FCC, RoHS, MSDS, UN38.3

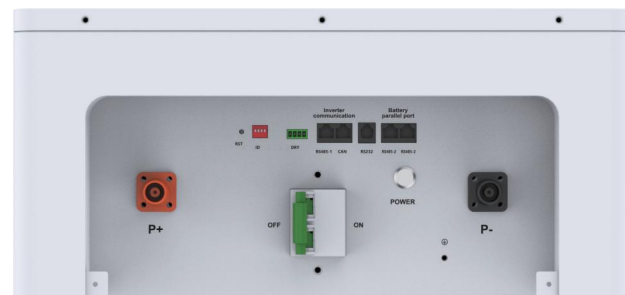
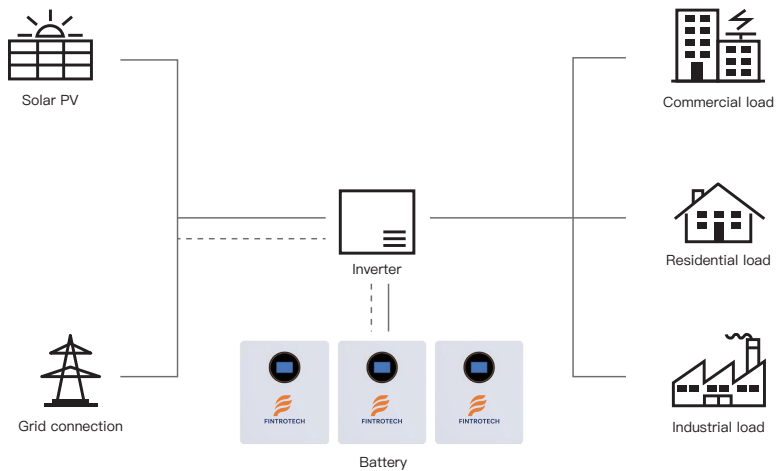




Model:
HS-BG25305

Rated Voltage: 25.6V
 Rated Capacity: 305Ah
 Rated Energy: 7808Wh
 Voltage Range: 22.4-28V
 Charge Voltage Range: 28-28.8V
 Cut-off Voltage: 22.4V
 Recommend Charge Current: 100A
 Max Charge Current: 200A
 Max Discharge Current: 200A

Dimension L*W*H: 500*233*514.5
 Weight: ≈67.5kg
 Communication Port: RS485、CAN
 Display: 3.5-inch touch screen
 Terminal: Plug-in
 Cycle Life: >6000 (0.5C@ 25°C, 80% DOD)
 Compatible inverter: Growatt, Goodwe, Sol-Ark, SRNE, DEYE
 Certificate: CE, FCC, RoHS, MSDS, UN38.3

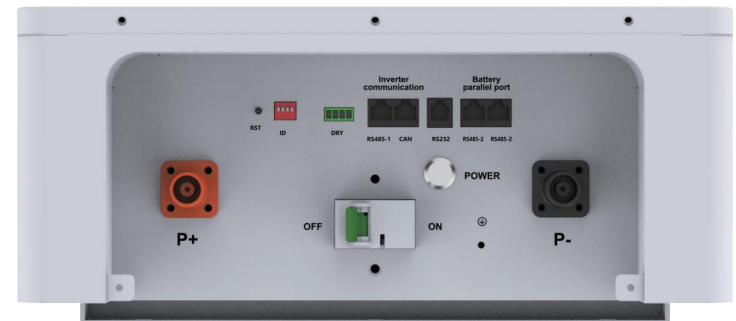
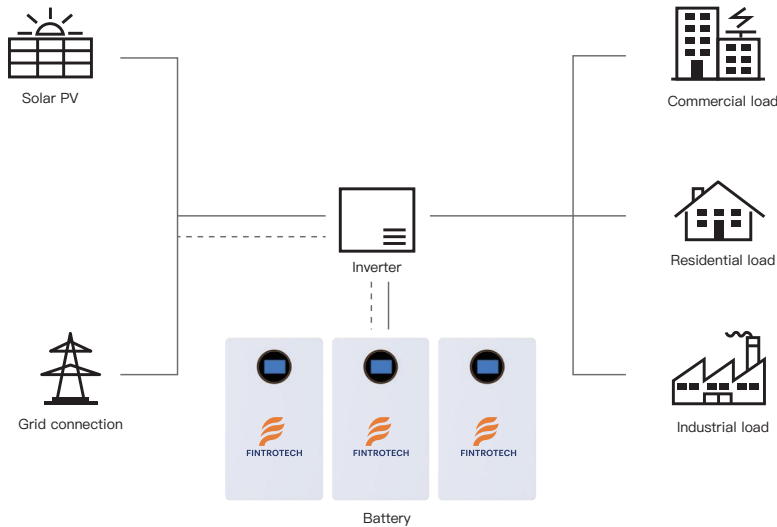




Model:
HS-BG51100

Rated Voltage: 51.2V
 Rated Capacity: 100Ah
 Rated Energy: 5120Wh
 Voltage Range: 44.8-56V
 Charge Voltage Range: 56-57.6V
 Cut-off Voltage: 44.8V
 Recommend Charge Current: 50A
 Max Charge Current: 100A
 Max Discharge Current: 100A

Dimension L*W*H: 400*186*670
 Weight: \approx 49.3kg
 Communication Port: RS485、CAN
 Display: 3.5-inch touch screen
 Terminal: Plug-in
 Cycle Life: >6000 (0.5C@ 25°C, 80% DOD)
 Compatible inverter: Growatt, Goodwe, Sol-Ark, SRNE, DEYE
 Certificate: CE, FCC, RoHS, MSDS, UN38.3





Model:

HS-BG51200

Rated Voltage: 51.2V

Rated Capacity: 200Ah

Rated Energy: 10240Wh

Voltage Range: 44.8-56V

Charge Voltage Range: 56-57.6V

Cut-off Voltage: 44.8V

Recommend Charge Current: 100A

Max Charge Current: 200A

Max Discharge Current: 200A

Dimension L*W*H: 418*227*670

Weight: \approx 89.2kg

Communication Port: RS485、CAN

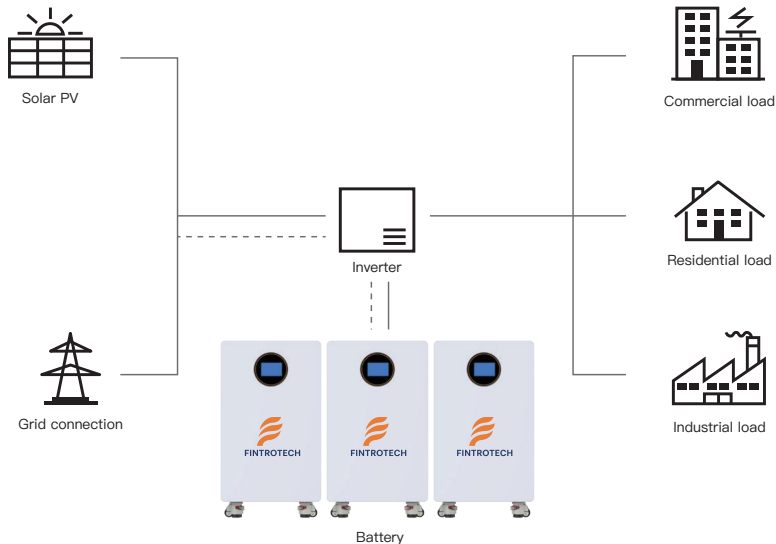
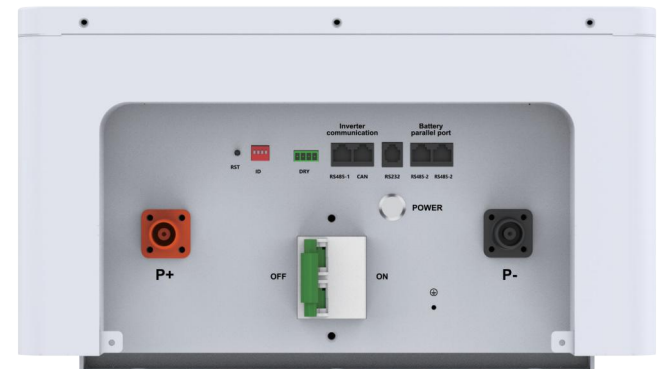
Display: 3.5-inch touch screen

Terminal: Plug-in

Cycle Life: >6000 (0.5C@ 25°C, 80% DOD)

Compatible inverter: Growatt, Goodwe, Sol-Ark, SRNE, DEYE

Certificate: CE, FCC, RoHS, MSDS, UN38.3





Model:

HS-BG51305

Rated Voltage: 51.2V

Rated Capacity: 305Ah

Rated Energy: 15616Wh

Voltage Range: 44.8-56V

Charge Voltage Range: 56-57.6V

Cut-off Voltage: 44.8V

Recommend Charge Current: 100A

Max Charge Current: 200A

Max Discharge Current: 200A

Dimension L*W*H: 500*232*810

Weight: \approx 117.5kg

Communication Port: RS485、CAN

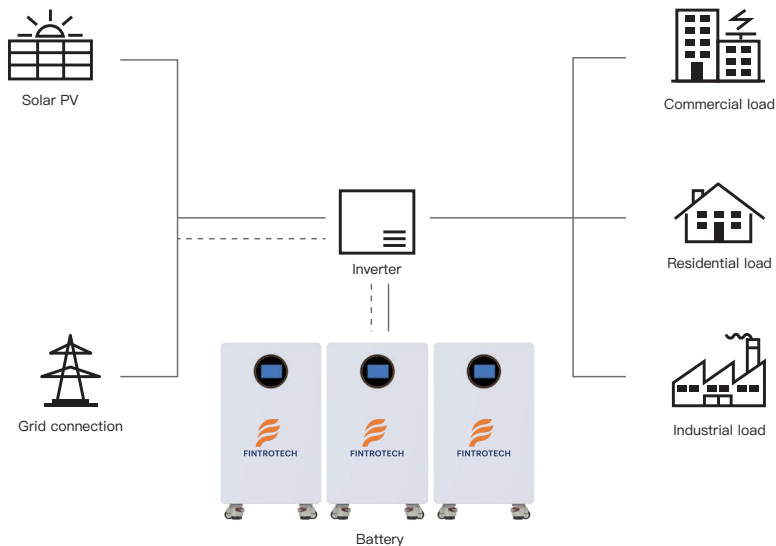
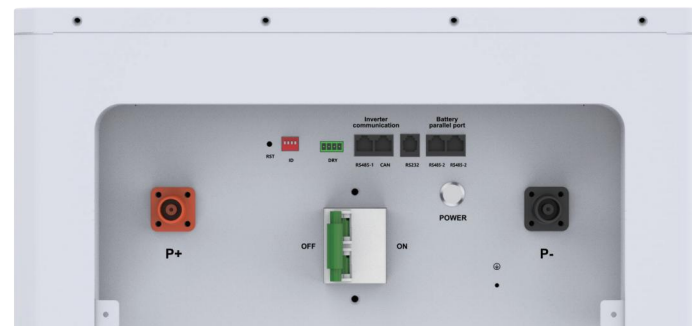
Display: 3.5-inch touch screen

Terminal: Plug-in

Cycle Life: >6000 (0.5C@ 25°C, 80% DOD)

Compatible inverter: Growatt, Goodwe, Sol-Ark, SRNE, DEYE

Certificate: CE, FCC, RoHs, MSDS, UN38.3





Model:

HS-BG51400

Rated Voltage: 51.2V

Rated Capacity: 400Ah

Rated Energy: 20480Wh

Voltage Range: 44.8-56V

Charge Voltage Range: 56-57.6V

Cut-off Voltage: 44.8V

Recommend Charge Current: 100A

Max Charge Current: 200A

Max Discharge Current: 200A

DimensionL*W*H: 600*300*702

Weight: \approx 165kg

Communication Port: RS485、CAN

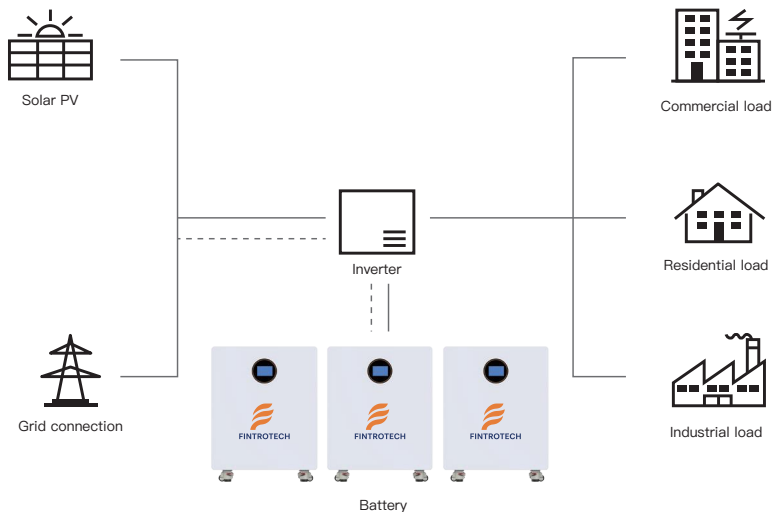
Display: 3.5-inch touch screen

Terminal: Plug-in

Cycle Life: >6000 (0.5C@ 25°C, 80% DOD)

Compatible inverter: Growatt, Goodwe, Sol-Ark, SRNE, DEYE

Certificate: CE, FCC, RoHS, MSDS, UN38.3



Model:

HS-BG5000W-A5

Rated Voltage: 51.2V

Rated Capacity: 100Ah

Rated Energy: 5120Wh

Voltage Range: 44.8-56V

Charge Voltage Range: 56-57.6V

Cut-off Voltage: 44.8V

Recommend Charge Current: 50A

Max Charge Current: 100A

Max Discharge Current: 100A

DimensionL*W*H: 460*164*612mm

Weight: ≈49.3kg

Communication Port: RS485、CAN

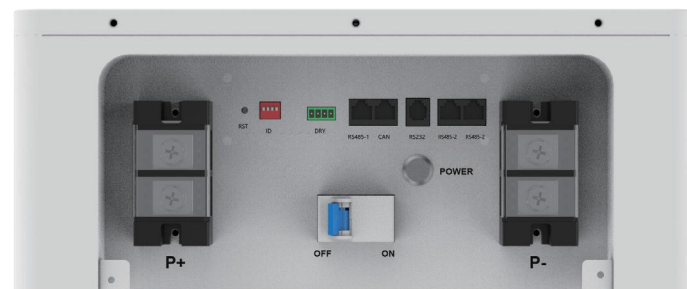
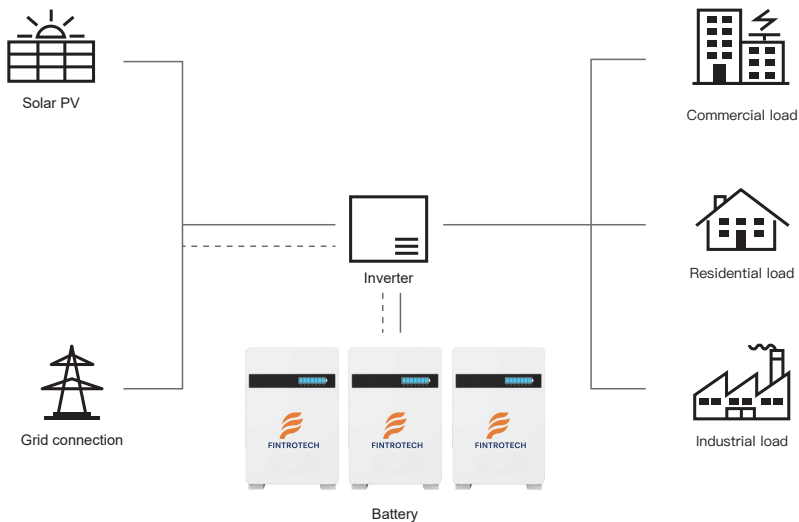
Display: LED+LCD

Terminal: M8

Cycle Life: >6000 (0.5C@ 25℃, 80% DOD)

Compatible inverter: Growatt, Goodwe, Sol-Ark, SRNE, DEYE

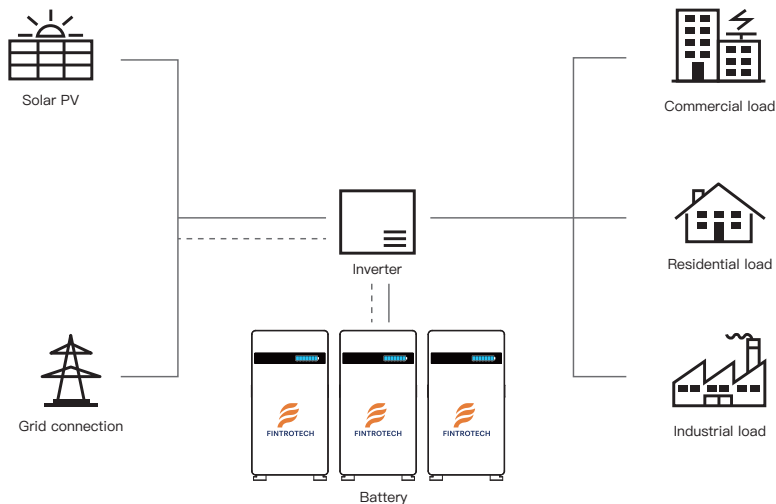
Certificate: CE,FCC,RoHs,MSDS,UN38.3



Model:
HS-BG10KW-A2

Rated Voltage: 51.2V
 Rated Capacity: 200Ah
 Rated Energy: 10240Wh
 Voltage Range: 44.8-56V
 Charge Voltage Range: 56-57.6V
 Cut-off Voltage: 44.8V
 Recommend Charge Current: 100A
 Max Charge Current: 200A
 Max Discharge Current: 200A

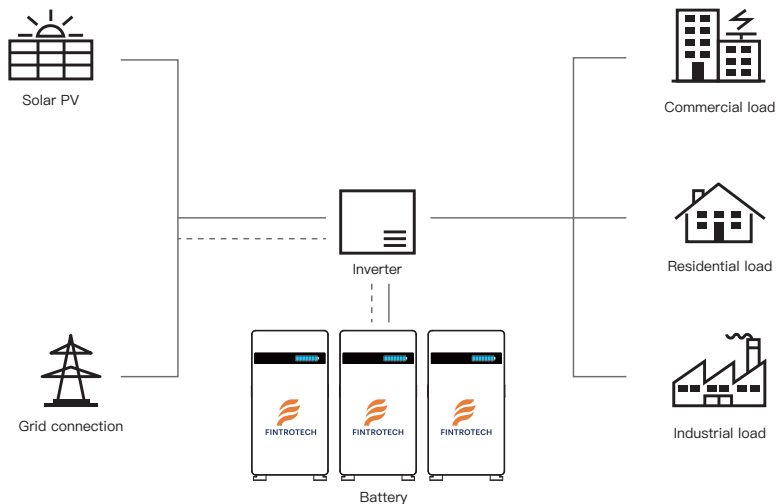
DimensionL*W*H: 430*164*960mm
 Weight: ≈85.9kg
 Communication Port: RS485、CAN
 Display: LED+LCD
 Terminal: M8
 Cycle Life: >6000 (0.5C@ 25°C, 80% DOD)
 Compatible inverter: Growatt, Goodwe, Sol-Ark, SRNE, DEYE
 Certificate: CE, FCC, RoHS, MSDS, UN38.3



Model:
HS-LD15KW-A3

Rated Voltage: 51.2V
 Rated Capacity: 305Ah
 Rated Energy: 15616Wh
 Voltage Range: 44.8-56V
 Charge Voltage Range: 56-57.6V
 Cut-off Voltage: 44.8V
 Recommend Charge Current: 100A
 Max Charge Current: 200A
 Max Discharge Current: 200A

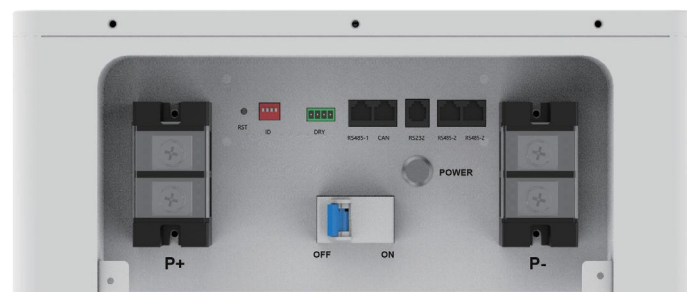
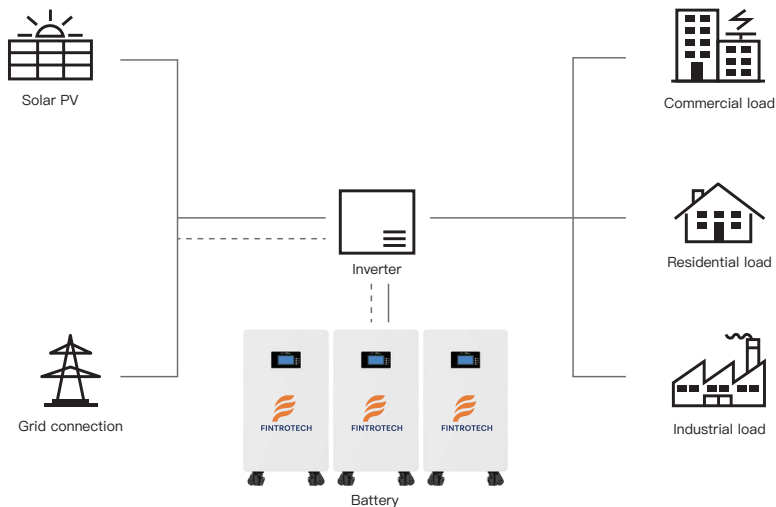
Dimension L*W*H: 500*230*780(Without base)
 Weight: \approx 117.5kg
 Communication Port: RS485、CAN
 Display: LED+LCD
 Terminal: M8
 Cycle Life: >6000 (0.5C@ 25°C, 80% DOD)
 Compatible inverter: Growatt, Goodwe, Sol-Ark, SRNE, DEYE
 Certificate: CE, FCC, RoHS, MSDS, UN38.3



Model:
HS-BG5000W-A6

Rated Voltage: 51.2V
 Rated Capacity: 100Ah
 Rated Energy: 5120Wh
 Voltage Range: 44.8-56V
 Charge Voltage Range: 56-57.6V
 Cut-off Voltage: 44.8V
 Recommend Charge Current: 50A
 Max Charge Current: 100A
 Max Discharge Current: 100A

Dimension L*W*H: 400*165*670(Without base)
 Weight: \approx 49.3kg
 Communication Port: RS485、CAN
 Display: LED+LCD
 Terminal: M8
 Cycle Life: >6000 (0.5C@ 25°C, 80% DOD)
 Compatible inverter: Growatt, Goodwe, Sol-Ark, SRNE, DEYE
 Certificate: CE, FCC, RoHS, MSDS, UN38.3



Model:
HS-BG10KW-A5

Rated Voltage: 51.2V

Rated Capacity: 200Ah

Rated Energy: 10240Wh

Voltage Range: 44.8-56V

Charge Voltage Range: 56-57.6V

Cut-off Voltage: 44.8V

Recommend Charge Current: 100A

Max Charge Current: 200A

Max Discharge Current: 200A

DimensionL*W*H: 418*228*670(Without base)

Weight: \approx 89.2kg

Communication Port: RS485、CAN

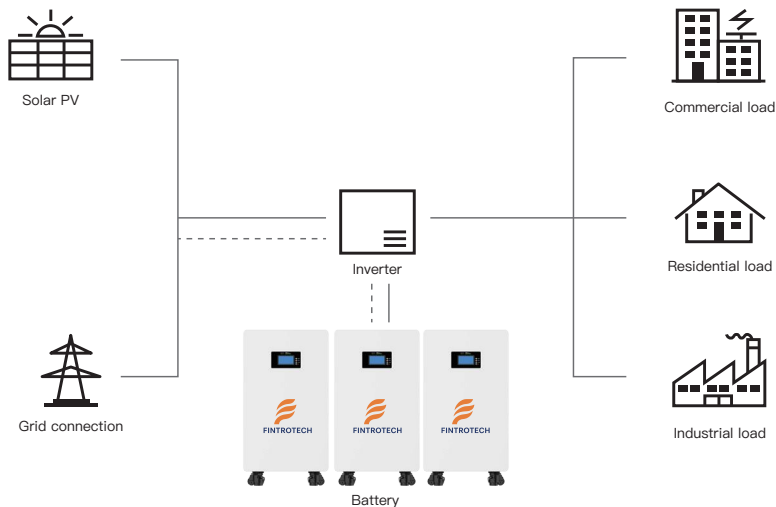
Display: LED+LCD

Terminal: M8

Cycle Life: >6000 (0.5C@ 25°C, 80% DOD)

Compatible inverter: Growatt, Goodwe, Sol-Ark, SRNE, DEYE

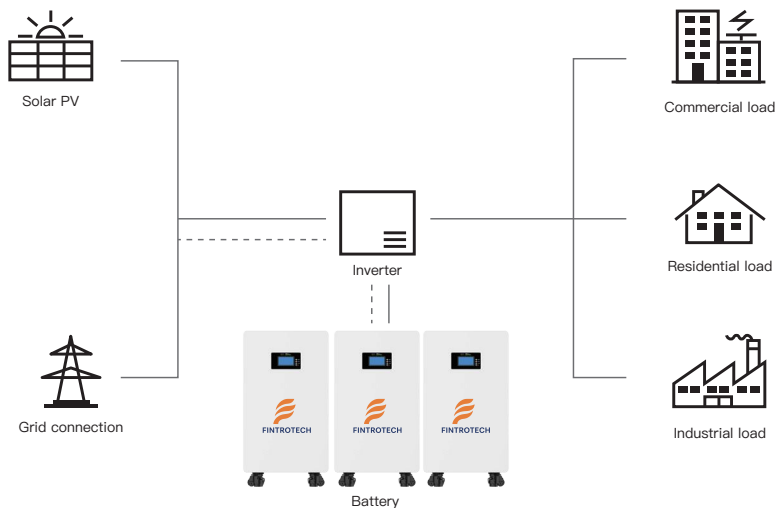
Certificate: CE, FCC, RoHS, MSDS, UN38.3



Model:
HS-LD15KW-A2

Rated Voltage: 51.2V
 Rated Capacity: 305Ah
 Rated Energy: 15616Wh
 Voltage Range: 44.8-56V
 Charge Voltage Range: 56-57.6V
 Cut-off Voltage: 44.8V
 Recommend Charge Current: 100A
 Max Charge Current: 200A
 Max Discharge Current: 200A

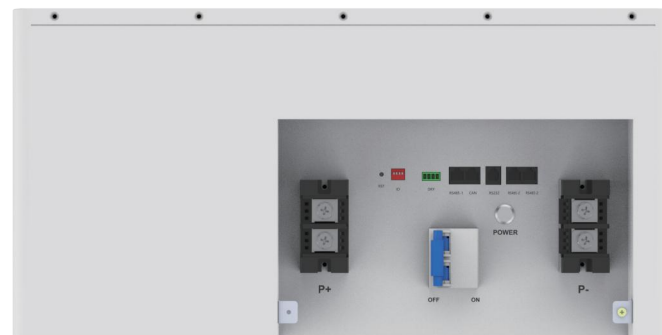
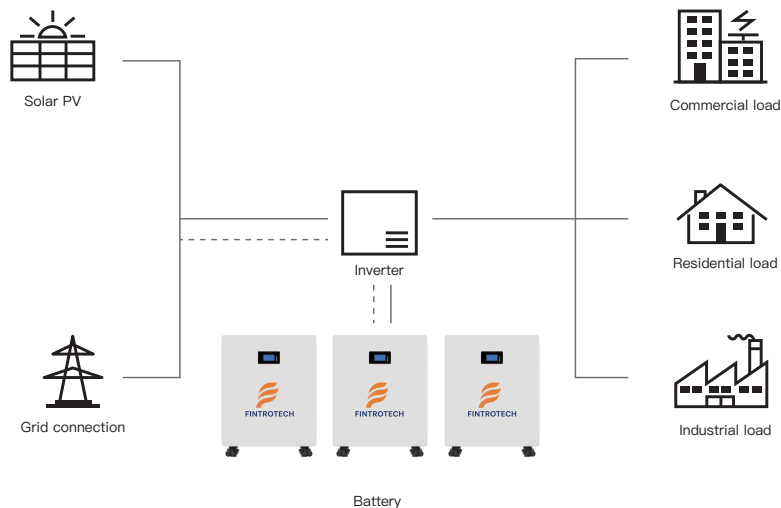
Dimension L*W*H: 500*233*810(Without base)
 Weight: \approx 117.5kg
 Communication Port: RS485、CAN
 Display: LED+LCD
 Terminal: M8
 Cycle Life: >6000 (0.5C@ 25°C, 80% DOD)
 Compatible inverter: Growatt, Goodwe, Sol-Ark, SRNE, DEYE
 Certificate: CE, FCC, RoHS, MSDS, UN38.3



Model:
HS-LD20KW

Rated Voltage: 51.2V
 Rated Capacity: 400Ah
 Rated Energy: 20480Wh
 Voltage Range: 44.8-56V
 Charge Voltage Range: 56-57.6V
 Cut-off Voltage: 44.8V
 Recommend Charge Current: 100A
 Max Charge Current: 200A
 Max Discharge Current: 200A

Dimension L*W*H: 600*300*702(Without base)
 Weight: \approx 165kg
 Communication Port: RS485、CAN
 Display: LED+LCD
 Terminal: M8
 Cycle Life: >6000 (0.5C@ 25°C, 80% DOD)
 Compatible inverter: Growatt, Goodwe, Sol-Ark, SRNE, DEYE
 Certificate: CE, FCC, RoHs, MSDS, UN38.3



Model:

HS-LD30KW

Rated Voltage: 51.2V

Rated Capacity: 600Ah

Rated Energy: 30720Wh

Voltage Range: 44.8-56V

Charge Voltage Range: 56-57.6V

Cut-off Voltage: 44.8V

Recommend Charge Current: 100A

Max Charge Current: 200A

Max Discharge Current: 200A

Dimension L*W*H: 680*300*1130(Without base)

Weight: \approx 200kg

Communication Port: RS485、CAN

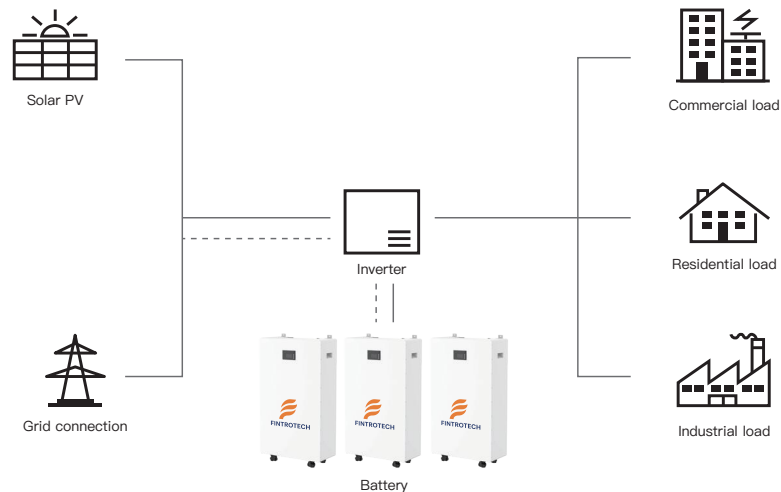
Display: LED+LCD

Terminal: M8

Cycle Life: >6000 (0.5C@ 25°C, 80% DOD)

Compatible inverter: Growatt, Goodwe, Sol-Ark, SRNE, DEYE

Certificate: CE,FCC,RoHs,MSDS,UN38.3



Model:

HS-LD12.8V280Ah

Rated Voltage: 12.8V

Rated Capacity: 280Ah

Rated Energy: 3584Wh

Recommended Charge Current: 40A

Maximum Charge Current: 75A

Recommended Charge Voltage: 14.6V

Continuous Discharge Current: 75A

Maximum continuous Discharge Current: 150A

Discharge Cut-Off Voltage: 10V

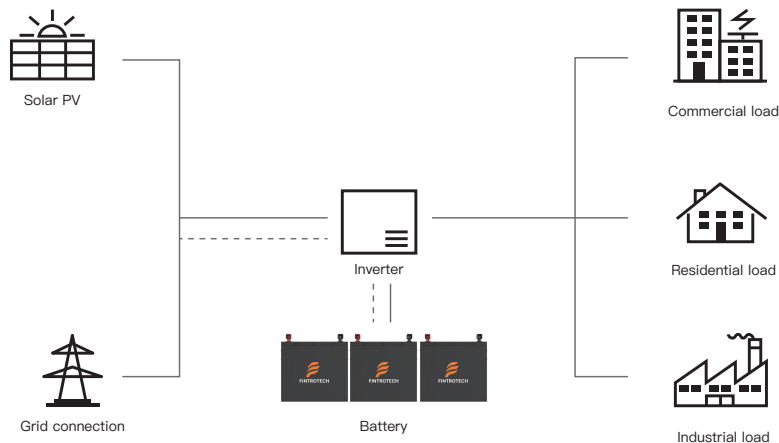
Dimension: L316*W195*H293mm

Weight: \approx 26.5kg

Terminal Type: M8

Cycle Life: >6000 (0.5C@ 25°C, 80% DOD)

Certificate: CE,FCC,RoHS,MSDS,UN38.3



Model:

HS-LD25.6V280Ah

Rated Voltage: 25.6V

Rated Capacity: 280Ah

Rated Energy: 7168Wh

Recommended Charge Current: 40A

Maximum Charge Current: 75A

Recommended Charge Voltage: 29.2V

Continuous Discharge Current: 75A

Maximum continuous Discharge Current: 150A

Discharge Cut-Off Voltage: 20V

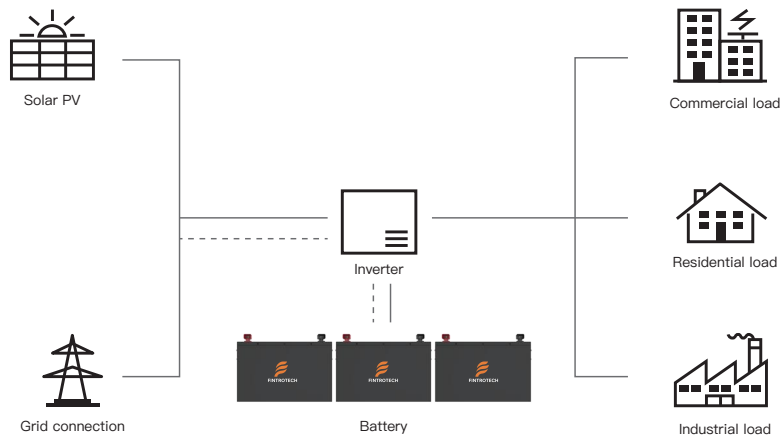
Dimension: L464*W273.4*H293mm

Weight: \approx 51.8kg

Terminal Type: M8

Cycle Life: >6000 (0.5C@ 25°C, 80% DOD)

Certificate: CE,FCC,RoHS,MSDS,UN38.3



Model:
HS-YD25280

Rated Voltage: 25.6V

Rated Capacity: 280Ah

Rated Energy: 7168Wh

Recommended Charge Current: 40A

Maximum Charge Current: 100A

Recommended Charge Voltage: 29.2V

Continuous Discharge Current: 100A

Maximum continuous Discharge Current: 200A

Discharge Cut-Off Voltage: 20V

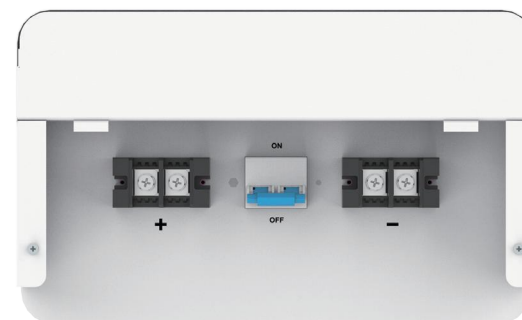
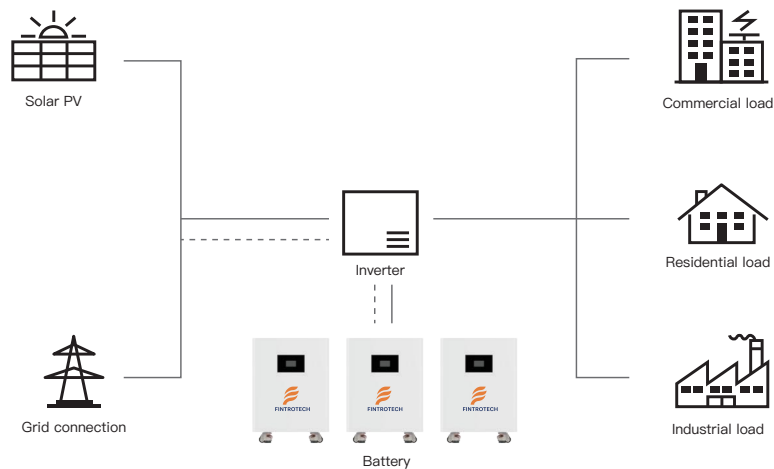
Dimension: L450*W276*H548.5mm

Weight: \approx 63.2kg

Terminal Type: M8

Cycle Life: >6000 (0.5C@ 25°C, 80% DOD)

Certificate: CE,FCC,RoHS,MSDS,UN38.3



Model:

HS-LD12280

Rated Voltage: 12.8V

Rated Capacity: 280Ah

Rated Energy: 3584Wh

Recommended Charge Current: 40A

Maximum Charge Current: 100A

Recommended Charge Voltage: 14.6V

Continuous Discharge Current: 100A

Maximum continuous Discharge Current: 200A

Discharge Cut-Off Voltage: 10V

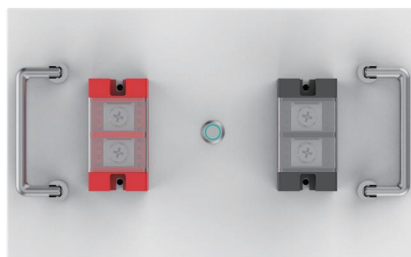
Dimension: L316*W195*H340mm

Weight: \approx 28.7kg

Terminal Type: M8

Cycle Life: >6000 (0.5C@ 25°C, 80% DOD)

Certificate: CE,FCC,RoHs,MSDS,UN38.3



Model:

HS-LD25280

Rated Voltage: 25.6V

Rated Capacity: 280Ah

Rated Energy: 7168Wh

Recommended Charge Current: 40A

Maximum Charge Current: 100A

Recommended Charge Voltage: 29.2V

Continuous Discharge Current: 100A

Maximum continuous Discharge Current: 200A

Discharge Cut-Off Voltage: 20V

Dimension: L464*W273*H340mm

Weight: \approx 53.8kg

Terminal Type: M8

Cycle Life: >6000 (0.5C@ 25°C, 80% DOD)

Certificate: CE,FCC,RoHs,MSDS,UN38.3



03

Energy Storage System with built-in inverter



Model: **HS-YD3.6KW**

Product Type: All-in-one design,
with built-in hybrid inverter

PV Input

Max. PV Input Power: 5000W
 Max. DC Input Voltage: 500Vdc
 Max. Input Current: 18A
 MPPT Voltage Range: 40V-450V

AC Input

Nominal Operating Voltage: 230Vac
 Nominal Operating Frequency: 50/60Hz
 Max. Input Current: 20A

AC Output

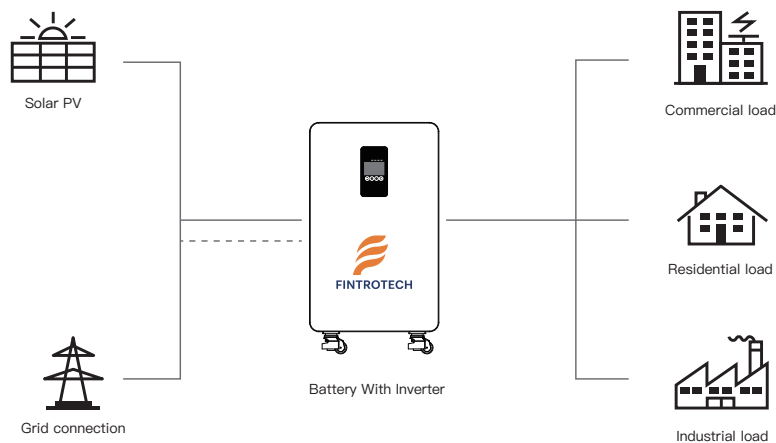
Rated Output Power: 3600VA/3600W
 Nominal AC Output Voltage: 208/220/230/240Vac
 Nominal AC Frequency: 50/60Hz
 Surge Power(3 seconds): 5400VA
 Nominal AC Output Current: 15.7A

Battery

Rated Voltage: 25.6V
 Rated Capacity: 127Ah
 Rated Energy: 3251.2Wh
 Voltage Range: 22.4-28V
 Charge Voltage Range: 28-28.8V
 Cut-off Voltage: 22.4V
 Recommend Charge Current: 50A
 Max Charge Current: 100A
 Max Discharge Current: 100A

General

Temperature: -10°C ~ +55 °C
 Protective Class: Class I
 Ingress Protection: IP31



Model: **HS-YD8KW**

Product Type: All-in-one design,
with built-in hybrid inverter

PV Input

Max. PV Input Power: 5000W
 Max. DC Input Voltage: 500Vdc
 Max. Input Current: 18A
 MPPT Voltage Range: 40V-450V

AC Input

Nominal Operating Voltage: 230Vac
 Nominal Operating Frequency: 50/60Hz
 Max. Input Current: 20A

AC Output

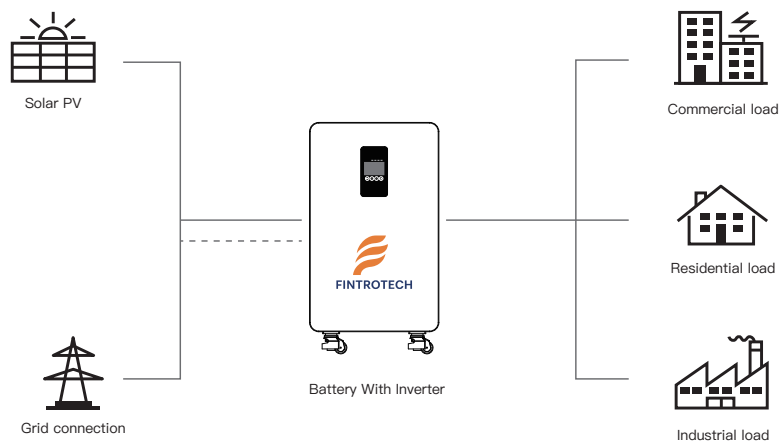
Rated Output Power: 4200VA/4200W
 Nominal AC Output Voltage: 208/220/230/240Vac
 Nominal AC Frequency: 50/60Hz
 Surge Power(3 seconds): 5400VA
 Nominal AC Output Current: 15.7A

Battery

Rated Voltage: 25.6V
 Rated Capacity: 314Ah
 Rated Energy: 8038.4Wh
 Voltage Range: 22.4-28V
 Charge Voltage Range: 28-28.8V
 Cut-off Voltage: 22.4V
 Recommend Charge Current: 50A
 Max Charge Current: 100A
 Max Discharge Current: 150A

General

Temperature: -10°C ~ +55 °C
 Protective Class: Class I
 Ingress Protection: IP31



Model:

HS-YD5KW

PV Input

Max. PV Input Power:	9000W
MPPT Voltage:	60~450VDC
Max. Input Current:	27A
Open circuit voltage:	500V
Max PV charge current:	120A

AC Input

Nominal Operating Voltage:	230Vac
Nominal Operating Frequency:	50/60Hz
Nominal Current(RMS):	26A
Max Current (RMS):	40A
Input Voltage Range:	90~280Vac

AC Output

Rated Output Power:	6000VA/6000W
Nominal AC Output Voltage:	208/220/230/240Vac
Nominal AC Frequency:	50/60Hz
Output topology:	L + N + PE

Battery

Rated Voltage:	51.2V
Rated Capacity:	100Ah
Rated Energy:	5120Wh
Max. Battery Discharging Current:	100A
Voltage Range:	44.8~56V
Charge Voltage Range:	56~57.6V
Cut-off Voltage:	44.8V
Recommend Charge Current:	50A
Max Charge Current:	100A
Max Discharge Current:	100A

General

Temperature:	-10°C ~ +55 °C
Protective Class:	Class I
Ingress Protection:	IP31



Model:

HS-YD15.6KW

PV Input

Max. PV Input Power:	9000W
MPPT Voltage:	60~450VDC
Max. Input Current:	27A
Open circuit voltage:	500V
Max PV charge current:	120A

AC Input

Nominal Operating Voltage:	230Vac
Nominal Operating Frequency:	50/60Hz
Nominal Current(RMS):	26A
Max Current (RMS):	40A
Input Voltage Range:	90~280Vac

AC Output

Rated Output Power:	6000VA/6000W
Nominal AC Output Voltage:	208/220/230/240Vac
Nominal AC Frequency:	50/60Hz
Output topology:	L + N + PE

Battery

Rated Voltage:	51.2V
Rated Capacity:	280Ah
Rated Energy:	14336Wh
Max. Battery Discharging Current:	100A
Voltage Range:	44.8~56V
Charge Voltage Range:	56~57.6V
Cut-off Voltage:	44.8V
Recommend Charge Current:	50A
Max Charge Current:	100A
Max Discharge Current:	100A

General

Temperature:	-10°C ~ +55 °C
Protective Class:	Class I
Ingress Protection:	IP31



Model:

HS-YD15KW

Model: HS-YD15KW

Rated Voltage: 51.2V

Rated Capacity: 280Ah

Rated Energy: 14336Wh

Voltage Range: 44.8-56V

Charge Voltage Range: 56-57.6V

Cut-off Voltage: 44.8V

Recommend Charge Current: 50A

Max Charge Current: 100A

Max Discharge Current: 100A

Output Peak power: Max 6000W peak

Battery Type: LiFePO4 280Ah*16PCS 16S1P

AC Input: 2500W(Parameters can be set)

MPPT PV Input: 120-500V 5500W Max

AC output: AC 230V 1500W*3 Pure sine wave

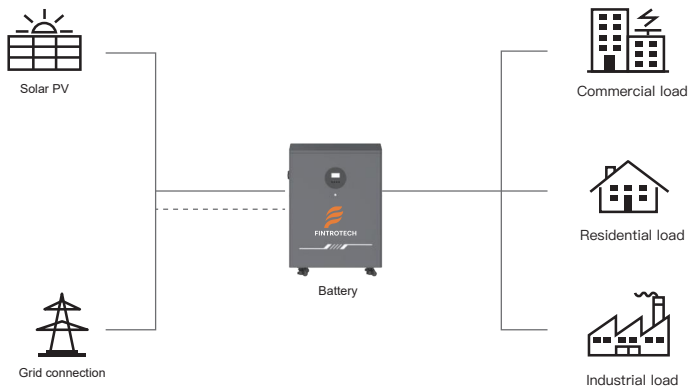
Indicator: LCD screen to show AC volt, power percentage, Frequency Hz.

Shell material: Metal

Product weight: ≈120.2kg

Dimension: L695*W330*H940mm(Height including base)

Color: Dark gray



04

Rack Mounted Energy Storage

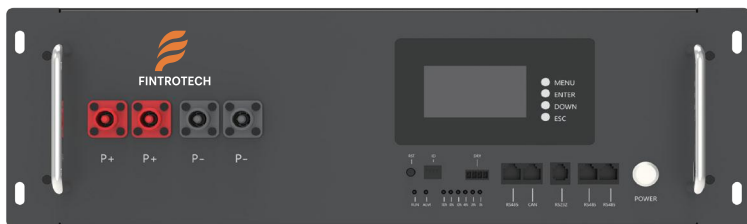


Model:

HS-GS3500W

Low-voltage battery

Rated Voltage: 51.2V
 Rated Capacity: 70Ah
 Rated Energy: 3584Wh
 Voltage Range: 44.8-56V
 Charge Voltage Range: 56-57.6V
 Cut-off Voltage: 44.8V
 Recommend Charge Current: 35A
 Max Charge Current: 70A
 Max Discharge Current: 70A
 DimensionL*W*H: 370*420*120mm
 Weight: 32kg
 Communication Port: RS485、CAN
 Display: LED+LCD
 Terminal: Plug-in
 Cycle Life: >6000 (0.5C@ 25°C, 80% DOD)
 Compatible inverter: Growatt, Goodwe, Sol-Ark, SRNE, DEYE
 Certificate: CE,FCC,RoHs,MSDS,UN38.3



Model:

HS-GS5000W

Low-voltage battery

Rated Voltage: 51.2V
 Rated Capacity: 100Ah
 Rated Energy: 5210Wh
 Voltage Range: 44.8-56V
 Charge Voltage Range: 56-57.6V
 Cut-off Voltage: 44.8V
 Recommend Charge Current: 50A
 Max Charge Current: 100A
 Max Discharge Current: 100A
 DimensionL*W*H: 470*452*160mm
 Weight: 46kg
 Communication Port: RS485、CAN
 Display: LED+LCD
 Terminal: Plug-in
 Cycle Life: >6000 (0.5C@ 25°C, 80% DOD)
 Compatible inverter: Growatt, Goodwe, Sol-Ark, SRNE, DEYE
 Certificate: CE,FCC,RoHs,MSDS,UN38.3



Model:

HS-GS10KW

Low-voltage battery

Rated Voltage: 51.2V

Rated Capacity: 200Ah

Rated Energy: 10240Wh

Voltage Range: 44.8-56V

Charge Voltage Range: 56-57.6V

Cut-off Voltage: 44.8V

Recommend Charge Current: 100A

Max Charge Current: 200A

Max Discharge Current: 200A

DimensionL*W*H: 490*585.5*241mm

Weight: 95kg

Communication Port: RS485、CAN

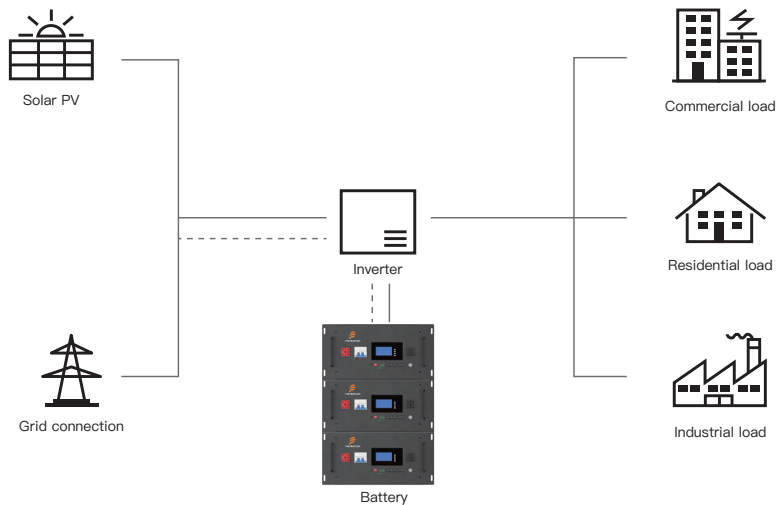
Display: LED+LCD

Terminal: Plug-in

Cycle Life: >6000 (0.5C@ 25°C, 80% DOD)

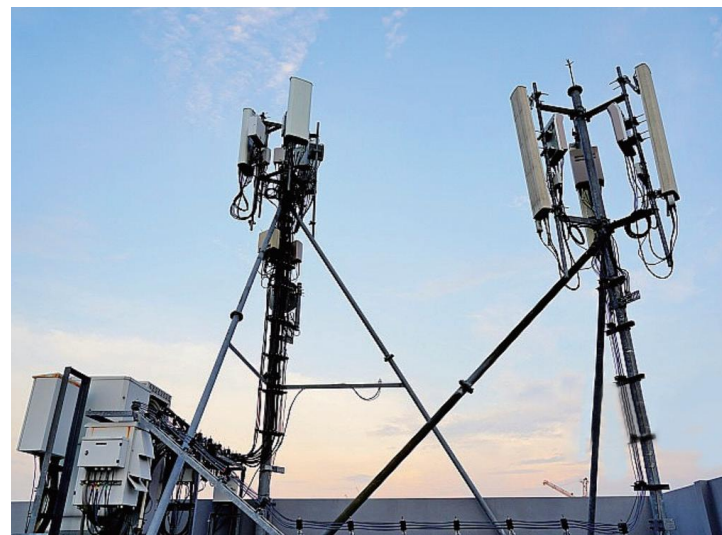
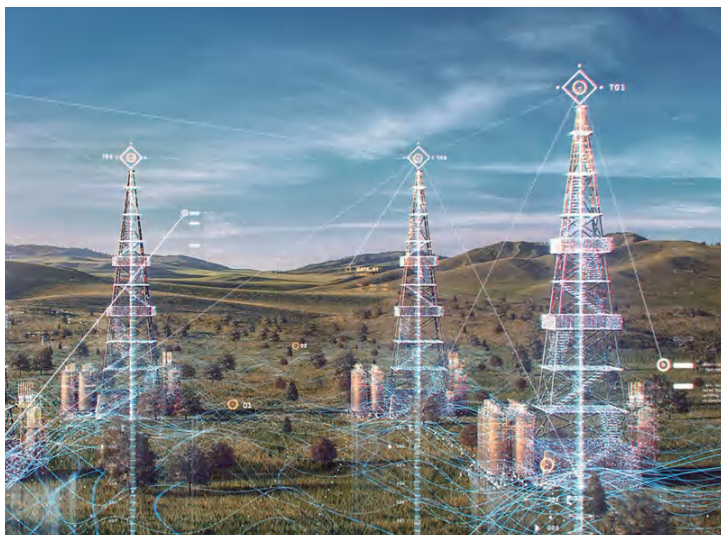
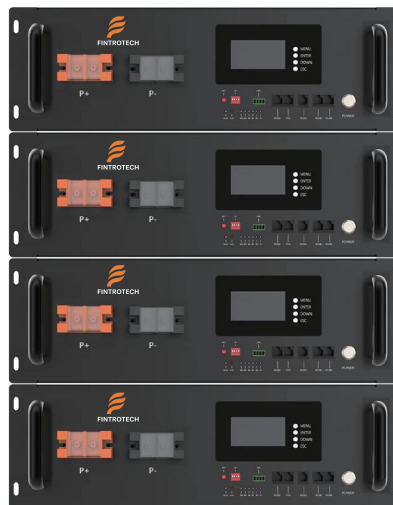
Compatible inverter: Growatt, Goodwe, Sol-Ark, SRNE, DEYE

Certificate: CE,FCC,RoHs,MSDS,UN38.3



HS-JZ01

Rated Voltage: 51.2V
 Rated Capacity: 100Ah
 Rated Energy: 5120Wh
 Voltage Range: 44.8-56V
 Charge Voltage Range: 56-57.6V
 Cut-off Voltage: 44.8V
 Recommend Charge Current: 50A
 Max Charge Current: 100A
 Max Discharge Current: 100A
 DimensionL*W*H: 470*452*160mm
 Weight: 46kg
 Communication Port: RS485、CAN
 Display: LED+LCD
 Terminal: Plug-in
 Cycle Life: > 6000 (0.5C@ 25°C, 80% DOD)
 Compatible inverter: Growatt, Goodwe, Sol-Ark, SRNE, DEYE
 Certificate: CE,FCC,RoHs,MSDS,UN38.3



Model:

HS-GS5000WHV

High-voltage battery

Cell Chemistry	LiFePO4		
Module Energy(kWh)	5.12		
Module Nominal Voltage (V)	51.2		
Module Capacity(Ah)	100		
Battery Module Qty in series.(Optional)	4 (Min)	8 (Standard US Cluster)	12 (Standard EU Cluster)
System Nominal Voltage (V)	204.8	409.6	614.4
System Operating Voltage(V)	180~233.6	332.8~467.2	499.2~700
System Energy(kWh)	20.48	40.96	61.44
System Usable Energy (kWh) ¹	18.432	36.86	55.29
Charge/Discharge ² Current (A)	Recommend	50	
	Nominal	100	
	Peak Discharge (2 mins,25°C)	125	
Working Temperature(°C)	Charge:0~55/Discharge:-20~55		
Status Indicator	Yellow: Battery High Voltage Power On Red: Battery System Alarm		
Communication Port	CAN2.0/RS485		
Humidity	5~85%RH		
Altitude	≤2000m		
IP Rating of Enclosure	IP20		
Dimension(W/D/H,mm)	589*590*1640		589*590*2240
Weight Approximate(kg)	258	434	628
Installation Location	Rack Mounting		
Storage Temperature(°C)	0~35		
Recommend Depth of Discharge	90%		
Cycle Life	25±2°C,0.5C/0.5C,EOL70%≥6000		
Warranty ³	5years		
Certification	CE/UN38.3		



¹ DCUsable Energy, test conditions: 90% DOD, 0.2C charge & discharge at 25°C, System usable energy may vary due to system configuration parameters.

² The current is affected by temperature and SOC.

³ The warranty is due whichever reached first of warranty period or life cycle power.

HS-JT9600W-HV High-voltage battery

Main Parameter

Cell Chemistry	LiFePO4	
Module Energy(kWh)	9.6	
Module Nominal Voltage (V)	96V	
Module Capacity(Ah)	100	
Battery Module Qty in series. (Optional)	4 Cluster	
System Nominal Voltage (V)	374	
System Operating Voltage (V)	420~432	
System Energy (kWh)	96	
System Usable Energy (kWh)	91.2	
Charge/Discharge Current (A)	Recommend	50
	Nominal	100
	Peak Discharge (2 mins, 25°C)	125
Working Temperature(°C)	Charge: 0~55/Discharge: -20~55	
Humidity	5~85%RH	
Altitude	≤2000m	
IP Rating of Enclosure	IP20	
Dimension (W/D/H,mm)	L780*W560*H852.5mm	
Weight Approximate (kg)	≈364.1kg	
Installation Location	Stacking	
Storage Temperature(°C)	0~35	
Recommend Depth of Discharge	95%	
Cycle Life	25±2°C, 0.5C/0.5C,EOL70%≥8000	



05

Commercial & Industrial ESS

Energy Storage Skid Solution

- All-in-one design for quick installation and minimum footprint
- Optimal system safety to reduce risks and protect assets
- Flexible and scalable configurations to meet current and future needs



EV Charging Stations



Factories



Commercial Buildings

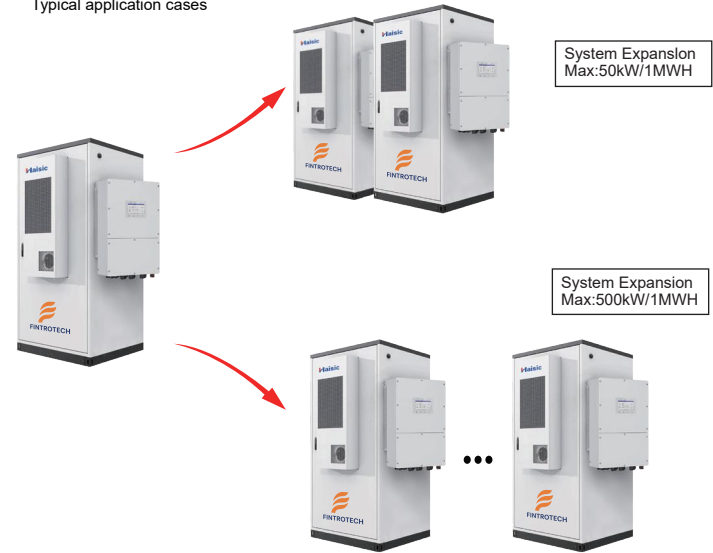


Microgrids

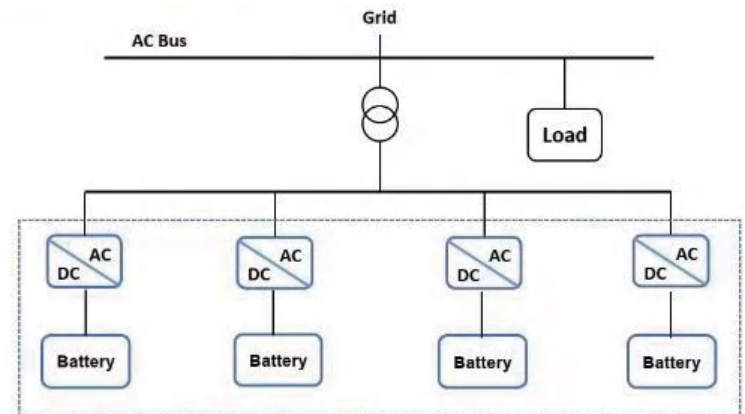


Model	HSEES100KWH-30KW	HSEES100KWH-40KW	HSEES100KWH-50KW
DC Data			
Battery Type	LiFePO4	LiFePO4	LiFePO4
Battery Energy	107.52kWh/1P120S	107.52kWh/1P120S	107.52kWh/1P120S
Battery Voltage Range	336Vdc~ 438Vdc	336Vdc~ 438Vdc	336Vdc~ 438Vdc
Rated Voltage	576V	576V	576V
Pack	280Ah/LFP 3.2V	280Ah/LFP 3.2V	280Ah/LFP 3.2V
Cycle Life	≥8000@0.5C 25 C	≥8000@0.5C 25 C	≥8000@0.5C 25 C
Communication	RS485/CAN	RS485/CAN	RS485/CAN
PCS Parameters			
Rated Output Power	30KW	40KW	50KW
Max. Rated Output Power	33KW	44KW	55KW
Rated Grid Voltage	3L/N/ PE 400VAC	3L/N/PE 400VAC	3L/N/PE 400VAC
Grid Frequency	50/60Hz	50/60Hz	50/60Hz
Output THDi	<3%	<3%	<3%
Peak Efficiency	97.60%	97.60%	97.60%
PV String Input Data			
Max. DC Input Power (W)	60000	80000	100000
MPPT Voltage Range (V)	150V~850V	150V~850V	150V~850V
Start-up Voltage (V)	180	180	180
Rated DC Input Voltage (V)	600	600	600
No. of MPPT Trackers/			
No. of String Per MPPT	3/2+2+2	4/2+2+2+2	4/2+2+2+2
Tracker			
General Data			
Dimensions (W x DxH)	1200x1000x2100 mm		
Weight of the Whole System	1200 KG(BATT)+35KG/80KG(INVERTER)		
Protection Level	IP55		
Operating Temperature			
Range	-20 C ~50 C		
Relative Humidity	0~95%(Non-Condensing)		
Warranty	5 Years Product Warranty		
Cooling	Forced Air-Cooling		
Fire Protection	Aerosol Fire Protection		

Typical application cases




500KWh with 10 strings version



Specifications

LFP Battery Energy Storage Solutions - IEC

Model	HS-ESS100kW215kWh	HS-ESS200kW430kWh	HS-ESS300kW645kWh	HS-ESS400kW860kWh	HS-ESS500kW1075kWh
Configuration					
PCS	100kW	200kW	300kW	400kW	500kW
Battery	Battery Cabinet (280 Ah cell)				
System Capacity	100 kW - 2 hours	200 kW -2 hours	300 kW-2 hours	400 kW -2 hours	500 kW - 2 hours
Install Energy(BOL)	215kWh	430kWh	645kWh	860kWh	1075kWh
PCS/ Battery Cabinet Q'ty	1/1	1/2	1/3	1/4	1/5
Dimension (W x D x H)	1450*1650*2340mm	1450*1650*2340mm*2	1450*1650*2340mm*3	1450*1650*2340mm*4	1450*1650*2340mm*5

* Other capacity can be determined by every single cabinet according to the battery modules quantity;

* Specifications are subject to change without prior notice.

06

Portable Power Station



HS2400

Capacity: 2496Wh
 Output Peak power: 1800W MAX (60S Protection)
 Battery Type: LiFePO4 52Ah*15PCS 15S1P
 Input: 600W Inside Charger
 AC output: AC 110V/220V 1500W Pure sine wave output*2
 Indicator: LCD screen to show capacity status
 Charging time: 6-7hours
 Shell material: Engineering PP
 Product weight: 31KG
 Dimension: 560*355*240mm
 Certificate: CE,FCC,RoHS,MSDS,UN38.3
 Carton Info: 800*545*370mm,37KG
 Packing accessories: AC charge cable, User manual



HS3000

Capacity: 3584Wh
 Output Peak power: Max 6000W peak
 Battery Type: LiFePO4 70Ah*16PCS 8S2P
 AC Input: 1500W
 MPPT PV Input: 160-500V Max3500W
 USB Output1: QC3.0(5V-12V) 18W*2
 USB Output2: TYPE C: PD60W
 DC Output3: 12V/10A*4
 AC output: AC 110V/220V 3000W Pure sine wave output*2
 Indicator: LCD screen to show DC,AC volt, power percentage,Frequency Hz.
 Charging time: 2-3hours
 Shell material: Engineering PP
 Product weight: 39KG
 Dimension: 570x425x280mm
 Cycle Life: >6000 (0.5C@ 25°C, 80% DOD)
 Certificate: CE,FCC,RoHS,MSDS,UN38.3
 Packing accessories: AC charge cable, PV charge cable



HS1520

Capacity: 2150Wh
 Battery Type: LiFePO4 96Ah*7PCS 1P7S
 AC Input: 735W Inside Charger
 MPPT PV Input: 650W 36-70V Max 20A
 USB Output: QC3.0(5V-12V) 18W*4
 AC output: AC 220V 1500W Pure sine wave output*3
 DC output: 12V/10A*4
 Cigarette Lighter Output: 12V/10A
 Indicator: LCD screen to show capacity status
 Charging time: 4-5hours
 Shell material: Metal
 Product weight: 35kg
 Dimension: 400*265*350mm
 Certificate: MSDS, UN38.3, CE, FCC, RoHS
 Packing accessories: AC charge cable, User manual

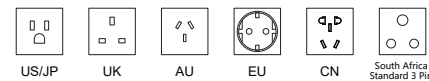
HS2500

Capacity: 2480Wh
 Battery Type: LiFePO4 96Ah*8PCS 1P8S
 AC Input: 820W Inside Charger
 MPPT PV Input: 730W 36-70V Max 20A
 USB Output: QC3.0(5V-12V) 18W*4
 AC output: AC 220V 2500W Pure sine wave output*3
 DC output: 12V/10A*4
 Cigarette Lighter Output: 12V/10A
 Indicator: LCD screen to show capacity status
 Charging time: 4-5hours
 Shell material: Metal
 Product weight: 38.6kg
 Dimension: 400*265*350mm
 Certificate: MSDS, UN38.3, CE, FCC, RoHS
 Packing accessories: AC charge cable, User manual



Model:
HS5000

Capacity: 5120Wh
 Output Peak power: Max 8000W peak
 Battery Type: LiFePO4 100Ah*16PCS 16S1P
 AC Input: 2500W
 MPPT PV Input: 160-500V Max5000W
 USB Output1: QC3.0(5V-12V) 18W*2
 USB Output2: TYPE C: PD60W
 DC Output3: 12V/10A*4
 Cigarette Lighter Output: 12V/10A
 AC output: AC 110V-220V 5000W pure sine wave output*2
 Indicator: LCD screen to show DC,AC volt, power percentage, Frequency Hz.
 Charging time: 2-3hours
 Shell material: Engineering PP
 Product weight: 59KG
 Dimension: 643x505x314mm
 Cycle Life: > 6000 (0.5C@ 25°C, 80% DOD)
 Certificate: CE,FCC,RoHS,MSDS,UN38.3
 Packing accessories: AC charge cable, PV charge cable



07

LiFePO4 Battery Pack



Outdoor and indoor UPS and battery backup systems ;
 Portable and cordless household appliances ;
 Medical equipment ; Motorcycles, toy cars ; Camping trailers, RVs, etc.
 Lighting equipment, emergency lights, etc.
 And many other application scenarios.



HS-12.8V6AH



HS-12.8V7.2AH



HS-12.8V8AH



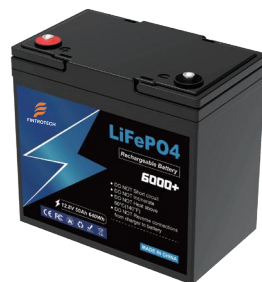
HS-12.8V15AH



HS-12.8V18AH



HS-12.8V23AH



HS-12.8V50AH



HS-12.8V100AH



HS-12.8V150AH

Outdoor and indoor UPS and battery backup systems ;
 Portable and cordless household appliances ;
 Medical equipment ; Motorcycles, toy cars ; Camping trailers, RVs, etc.
 Lighting equipment, emergency lights, etc.
 And many other application scenarios.



HS-12.8V200AH



HS-12.8V250AH



HS-12.8V300AH



HS-12.8V400AH



HS-25.6V50AH



HS-25.6V100AH



HS-25.6V200AH



HS-12.8V100AH
With self-heating function



12.8V 154Ah
LiFePO4 battery for RV



12.8V 270Ah
LiFePO4 battery for marine



12.8V 185Ah
LiFePO4 battery for marine



FINTROTECH



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