

Enerlution



ESS SOLUTIONS INDUSTRIAL & RESIDENTIAL

SMART MAINTENANCE, LOW COST HIGH EFFICIENCY



Enerlution Energy Technology Co.,Ltd.



LITHIUM BATTERY SPECIALIST
solar energy storage system

GLOBALIZATION LAYOUT



7000+
Factory Area



2Gwh
Actual Capacity



192
Patent Certificate



15+
Industry Experience

ABOUT US

2017

The company is a high-tech enterprise specializing in the research, development and production of energy storage battery systems, energy management and dispatching systems.

EMS

Our company focuses on home energy storage and small distributed energy storage systems, has achieved outstanding results in EMS (energy management system), BMS (battery management system), and safety management, etc.





PACK

A professional manufacturer of energy storage systems with ten years+ experience in energy storage system R&D and manufacturing, and can be flexibly customized.

BMS

The product has the characteristics of high power output, high safety, high reliability and high environmental protection.

2017

CORPORATE ADVANTAGE

SMART MAINTENANCE, LOW COST HIGH EFFICIENCY

● TECHNICAL SUPPORT

An independent energy storage system R&D team quickly responds to market demand and has more than 15+ years of R&D and manufacturing experience.

● PRODUCTION GUARANTEE

More than ten years of BMS research and development experience, China's top ten BMS suppliers.

● QUALITY ASSURANCE

Industry leading quality control/Certificates support.

● SERVICE ADVANTAGE

Overseas warehouse ,24h after services,smart maintenance



QUALIFICATION HONOR



ISO9001 / ISO45001 / UN38.3MSDS / IEC62619 / CE /
 UL1973 / UKCA / PSE / CEC / CEI / VDE

The collage displays several international certification documents:

- DEKRA ATTESTATION OF CONFORMITY:** Issued to Shenzhen Power Technology Co., Ltd. for Lithium-ion Battery. The certificate number is 2023070101.
- DEKRA CERTIFICATE OF CONFORMITY:** Issued to Shenzhen Power Technology Co., Ltd. for Lithium-ion Battery. The certificate number is 2023070101.
- CE Marking:** A large CE mark is prominently displayed in the center.
- SiCTLab Certificate of Conformity:** Issued to Shenzhen Power Technology Co., Ltd. for Lithium-ion Battery. The certificate number is 2023070101.
- TÜV NORD Certificate:** Issued to Shenzhen Power Technology Co., Ltd. for Lithium-ion Battery. The certificate number is 2023070101.

LFPWall-5000

5kWh / 10kWh / 15kWh / 20kWh

CE CB UK CA REHS MSDS IEC EMC UN38.3 CEI 0-21



Expansion Flexibility

5kWh modular design, support 1-8 battery in parallel.

Easy Installation

Wall mounted or floor mounted, saving installation time and cost.

Perfect Compatibility

Compatible with most low voltage inverters in the market.

Safe & Reliable

Lithium Iron phosphate(LFP) cell only. BMS built in.

Environment Adaptability

Wider temperature range: -10°C~55°C. IP65 protection class.

Long Lifespan

More than 15 years designed lifespan, more than 6000 cycles (0.5C, 25°C)

Product Parameter

Model	LFPWall-5000	Modules Connection	1-8 in parallel
Nominal Capacity	5.22kWh	Communication	CAN.RS485
Voltage	51.2V	Cycle Life	≥6000 @25°C,0.5C
Charge Voltage	57.6V	Storage Temperature	-20°C~+35°C
Discharge Voltage Range	45-57V	Working Temp Range	Charge: 0°C~+50°C Discharge: -10°C~+55°C
Max.Charging Current	40A	Net Weight	48.5kg/106lb
Max.Discharging Current	75A	Gross Weight	52.5kg/115lb
Battery Type	LiFePO4	Product Dimension(W*H*D)	536.3*464*180.5mm
Max.Output Power	3840W	Package Dimension(W*H*D)	592*522*252mm
DOD	90%		

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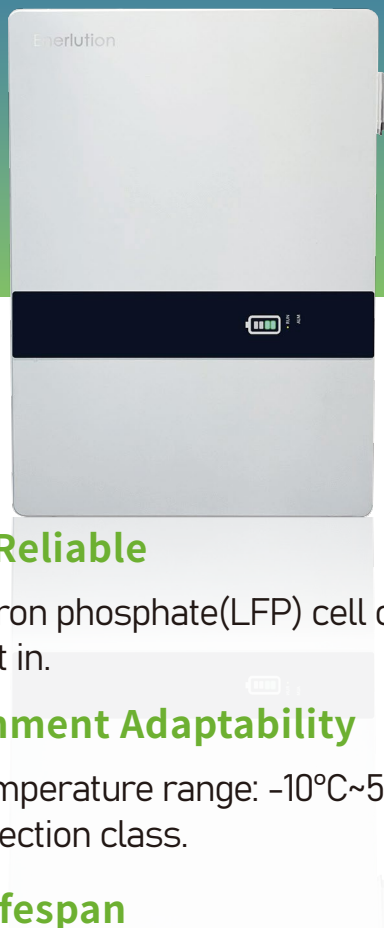
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LFPWall-10K-V2

10kWh / 20kWh / 30kWh / 40kWh

CE CB UK
CA REHS MSDS IEC EMC UN38.3

Product Advantages

● Expansion Flexibility

10kWh modular design, support 1-8 battery in parallel.

● Easy Installation

Wall mounted or floor mounted, saving installation time and cost.

● Perfect Compatibility

Compatible with most low voltage inverters in the market.

● Safe & Reliable

Lithium Iron phosphate(LFP) cell only.
BMS built in.

● Environment Adaptability

Wider temperature range: -10°C~55°C.
IP65 protection class.

● Long Lifespan

More than 15 years designed lifespan,
more than 6000 cycles (0.5C, 25°C)

Product Parameter

Model	LFPWall-10K-V2	Modules Connection	1-8 in parallel
Nominal Capacity	10.44kWh	Communication	CAN.RS485
Voltage	51.2V	Cycle Life	≥6000 @25°C,0.5C
Charge Voltage	57.6V	Storage Temperature	-20°C~+35°C
Discharge Voltage Range	43.2-57.6V	Working Temp Range	Charge: 0°C~+50°C Discharge: -10°C~+55°C
Max.Charging Current	90A	Net Weight	96kg/211lb
Max.Discharging Current	140A	Gross Weight	125kg/275lb
Battery Type	LiFePO4	Product Dimension(W*H*D)	586*790*197mm
Max.Output Power	7168W	Package Dimension(W*H*D)	720*950*390mm
DOD	90%		

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HIGH VOLTAGE STACKABLE ENERGY STORAGE BATTERY

GroundHV-2500

7.5kWh / 10kWh / 12.5kWh / 15kWh / 17.5kWh / 20kWh

CE CB UK CA     UN38.3 CEI 0-21

Product Advantages

● Easy Installation

24kg/52.9lb per battery box, easy to move and install. Quick connector between boxes, no cable connecting.

● Smart O&M

Check the APP to find data on your phone. Remote diagnosis and OTA.

● Environment Adaptability

Wider temperature range: $-20^{\circ}\text{C}\sim+55^{\circ}\text{C}$. IP65 protection class.

● More Usable Energy

90% Depth of Discharge, more than 6000 cycles (0.5C , 25°C)

● Expansion Flexibility

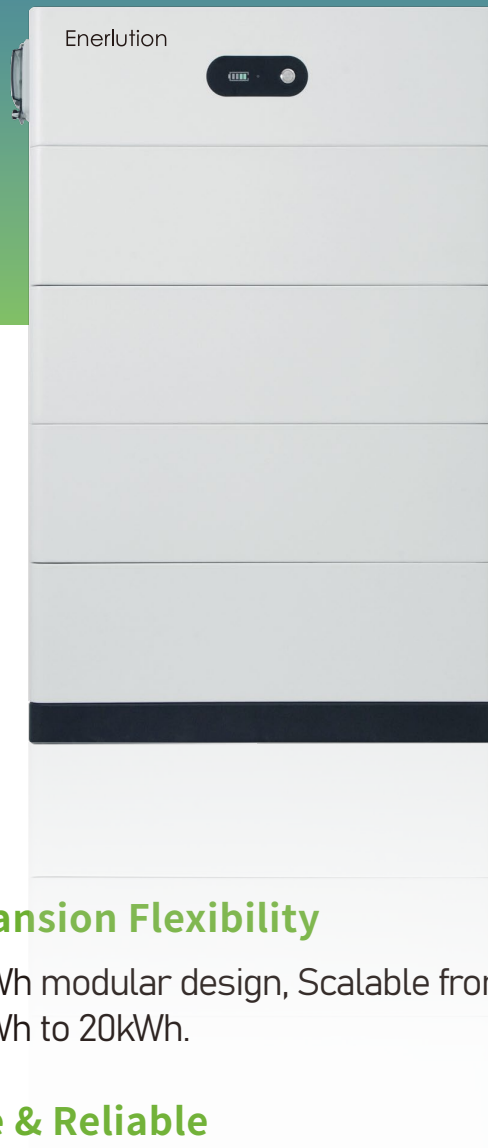
2.5kWh modular design, Scalable from 7.5kWh to 20kWh.

● Safe & Reliable

Lithium Iron Phosphate(LFP) cell only. BMS, fuse and aerosol kit are built in.

● Long Lifespan

More than 15 years



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HIGH VOLTAGE STACKABLE ENERGY STORAGE BATTERY

GroundHV-2500

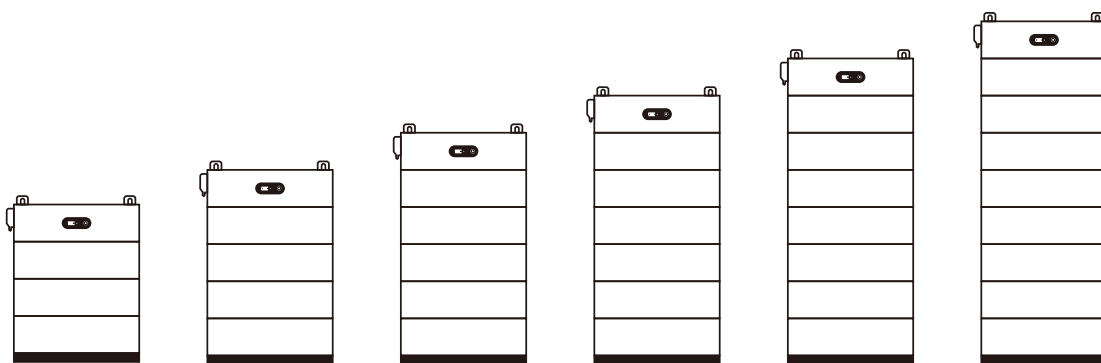
7.5kWh / 10kWh / 12.5kWh / 15kWh / 17.5kWh / 20kWh

CE CB UK CA     UN38.3 CEI 0-21



Product Parameter

Capacity	52Ah	Wi-Fi Module	Optional
Max.Discharge	35A	Each Pack	23.5kg/220*580*170mm
Charge Current	35A	PDU+Base	14kg/220*606*220mm
Battery Type	LiFePO4	Working Temperature	Charge: 0°C~+50°C Discharge: -10°C~+55°C
Installation	Ground-mounted	Storage Temperature	-20°C~+35°C
Protection Level	IP65	PDU/Pack Package Dimension	606*220*225mm
Transportation SOC	30%		



Model	GroundHV-7.5K	GroundHV-10K	GroundHV-12.5K	GroundHV-15K	GroundHV-17.5K	GroundHV-20K
Nominal Voltage	144V	192V	240V	288V	336V	384V
Connection	1P45S	1P60S	1P75S	1P90S	1P105S	1P120S
Voltage Working Range	114.7V-159.7V	153V-213V	191.2V-266.2V	230V-319V	267.7V-372.7V	306V-426V
Nominal Capacity	7.488kWh	9.984kWh	12.48kWh	14.976kWh	17.472kWh	19.968kWh
Weight	~80kg/176lb	~105kg/231lb	~129kg/284lb	~152.3kg/335lb	~176.2kg/388lb	~199.5kg/438lb
Dimensions (W*H*D)	606*730*220mm	606*900*220mm	606*1070*220mm	606*1240*220mm	606*1410*220mm	606*1580*220mm

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HIGH VOLTAGE STACKABLE ENERGY STORAGE BATTERY

GH02-5324

15kWh / 21kWh / 26kWh / 31kWh / 37kWh / 42kWh

CE CB     UN38.3

Product Advantages

Smart O&M

Check the APP to find data on your phone. Remote diagnosis and OTA.

Easy Installation

52kg/105.8lb per battery box, easy to move and install. Quick connector between boxes, no cable connecting.

Environment Adaptability

Wider temperature range: $-20^{\circ}\text{C} \sim +55^{\circ}\text{C}$. IP65 protection class.

More Usable Energy

90% Depth of Discharge, more than 6000 cycles (0.5C, 25°C).

Safe & Reliable

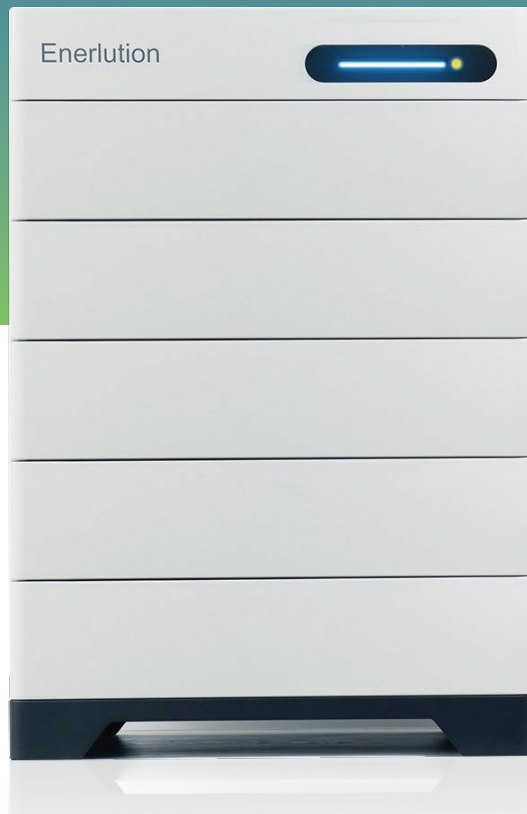
Lithium Iron Phosphate (LFP) cell only. BMS, fuse and aerosol kit are built in connecting.

Expansion Flexibility

5kWh modular design, Scalable from 15kWh to 42kWh.

Long Lifespan

More than 15 years.



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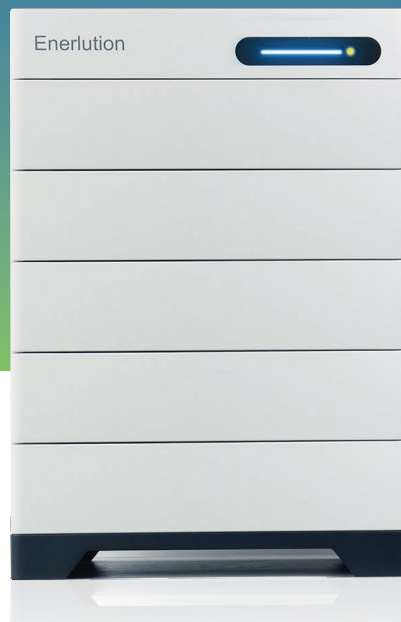
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HIGH VOLTAGE STACKABLE ENERGY STORAGE BATTERY

GH02-5324

15kWh / 21kWh / 26kWh / 31kWh / 37kWh / 42kWh

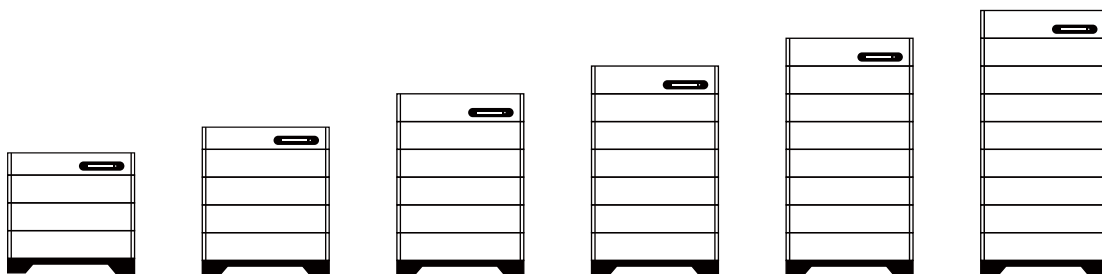
CE CB     UN38.3



Product Parameter

Capacity	104Ah
Max.Discharge	50A
Charge Current	50A
Battery Type	LiFePO4
Installation	Ground-mounted
Protection Level	IP65

Cycle Life	>6000 @ 25°C, 0.5C, 90%DOD
Transportation SOC	30%
Working Temperature	Charge: 0°C~+50°C Discharge: -20°C~+55°C
Storage Temperature	-20°C~+35°C



Model	GH02-16K	GH02-21K	GH02-27K	GH02-32K	GH02-37K	GH02-43K
Nominal Voltage	153.6V	204.8V	256V	307.2V	358.4V	409.6V
Connection	2P48S	2P64S	2P80S	2P96S	2P112S	2P128S
Voltage Working Range	114.7V-159.7V	153V-213V	191.2V-266.2V	230V-319V	267.7V-372.7V	306V-426V
Nominal Capacity	15.974kWh	21.299kWh	26.624kWh	31.949kWh	37.274kWh	42.598kWh

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HRH-5200

Rack-Mounted Energy Storage Battery

CE CB MSDS IEC EMC UN38.3 CE-LVD



Product Advantages

- Power configuration can be expanded from 5.22kWh to 62.64kWh.
- Modular design for easy installation and operation.
- Equipped with a specially designed BMS, three-level overcurrent protection
- 90% depth of discharge, exceeding 6000 cycles (0.5C, @25°C)
- RS485/CAN communication compatible with mainstream inverter brands

Product Parameter

CELL PARAMETERS	
Cell Type	LiFePO4
Nominal Voltage	3.2V
Nominal Capacity	102Ah
Cycle Life	≥6000 @25°C, 80%EOL)
BATTERY MODULE PARAMETERS	
Configuration	1P16S
Rated Capacity	102Ah
Rated Energy	5.2kWh
Nominal Voltage	51.2V
Operating Voltage Range	45.6-56.8V
Max Discharge Current	100A
GENERAL PARAMETERS	
Modular Combination Quantity	4-12 pcs
Max Expansion Size(W*H*D)	500*2405*560mm
Operation Temperature	0-50°C
Working Altitude	<2000m
Fire Protection System	Passive (high-temperature triggered)
Fire Extinguishing Agent	Thermal aerosol
Local Display	Yes

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LFPR-51B100L-V1

5kWh/10kWh/15kWh/20kWh

CE CB     UN38.3



Expansion Flexibility

5.22kWh modular design, support battery in parallel.

Easy Installation

Rack-mounted installation, easy to grab.

Perfect Compatibility

Compatible with both residential single & three phase inverters.

Safe & Reliable

Lithium Iron Phosphate(LFP) cell only. BMS built in.

Environment Adaptability

Wider temperature range: -10°C-55°C.

Long Lifespan

More than 15 years designed lifespan, more than 6000 cycles (0.5C, 25°C)

Product Parameter

Model	LFPR-51B100L-V1	Modules Connection	1-8 in parallel
Nominal Capacity	5.22kWh	Communication	CAN.RS485
Voltage	51.2V	Cycle Life	≥6000@25°C, 0.5C
Charge Voltage	57.6V	Storage Temperature	-20°C ~ +35°C
Discharge Voltage Range	43.2-57.6V	Working Temp Range	Charge: 0°C ~ +50°C Discharge: -10°C ~ +55°C
Max.Charging Current	50A	Net Weight	43.8kg/96.6lb
Max.Discharging Current	70A	Gross Weight	46.1kg/101.6lb
Battery Type	LiFePO4	Product Dimension(W*H*D)	520*150*474mm
Max.Output Power	3584W	Package Dimension(W*H*D)	600*255*525mm
DOD	90%		

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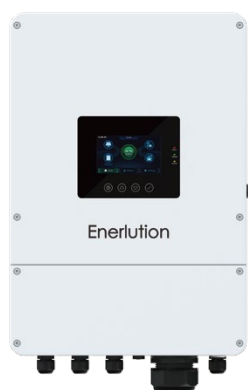
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INTELLIGENT ENERGY STORAGE SYSTEM SOLUTION

HY-4K-EU/HY-4.6K-EU/HY-5K-EU/HY-5.5K-EU/HY-6K-EU + LFPWall-5000/LFPWall-10K-V2



Single Phase Inverter



Wall Mounted Energy Storage Battery



Battery Parameters

Model	LFPWall-5000	LFPWall-10K-V2
Nominal Capacity	5.22kWh	10.44kWh
Voltage	51.2V	51.2V
Charge Voltage	57.6V	57.6V
Discharge Voltage Range	45-57V	43.2-57.6V
Max.Charging Current	40A	90A
Max.Output Power	3840W	7168W
DOD	90%	90%
Modules Connection	1-8 in parallel	1-8 in parallel
Cycle Life	≥6000 @25°C,0.5C	≥6000 @25°C,0.5C
Storage Temperature	-20°C~+35°C	-20°C~+35°C
Working Temp Range	Charge: 0°C~+55°C Discharge: -10°C~+55°C	Charge: 0°C~+55°C Discharge: -10°C~+55°C
Gross Weight	52.5kg/115lb	125kg/275lb

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Single Phase ESS Hybrid Inverter

MODEL	HY-4K-EU	HY-4.6K-EU	HY-5K-EU HY-5.5K-EU	HY-6K-EU
OFF-GRID OUTPUT				
Rated Output Power	4,000W	4,600W	5,500W	6,000W
Rated Output Voltage	230Vac, single-phase or three-phase when in parallel			
ON-GRID OUTPUT				
Rated Output Power	4,000W	4,600W	5,500W	6,000W
Max. Apparent Power	8,000VA	9,200VA	11,000VA	12,000VA
Rated Output Current	17.4A	20A	24A	26A
Max. Output Current	19.1A	22A	26.4A	28.6A
Rated Output Voltage	230Vac, single-phase or three-phase when in parallel			
BATTERY				
Battery Type	Lead-acid / Li-ion / User-defined			
Rated Battery Voltage	48Vdc			
Battery Voltage Range	40 ~ 60Vdc			
Max. Utility Charging Current	60A			
Max. Generator Charging Current	60A			
Max. Hybrid Charging Current	100A			
PV INPUT				
Num. of MPPT	2			
Max. PV Array Power	3000W+3000W	3500W+3500W	4000W+4000W	4500W+4500W
Max. Input Current	16A+16A			
Max. Open-circuit Voltage	500Vdc+500Vdc			
UTILITY / GENERATOR INPUT				
Input Voltage Range	90 ~ 280Vac			
Input Frequency Range	50/60Hz			
Bypass Overload Current	40A			
GENERAL				
Num. of Parallel	1 ~ 6 units			
Dimensions	556*345*182mm			
Weight	20kg			
Protection Degree	IP65			
Operating Temp. Range	-25~60°C, >45°C derating			
Cooling Method	heatsink & intelligent air cooling			
Warranty	5 years			
COMMUNICATION				
Internal Interface	RS485 / CAN / USB / Dry contact			
External Module (optional)	Wi-Fi / GPRS			

INTELLIGENT HIGH VOLTAGE SINGLE PHASE SOLAR SYSTEM

Single Phase HYSH Inverter Series High + Voltage Stackable Battery Series



Peak Efficiency
97.9 %



Max. DC Overload
60 %



Aluminum Alloy
Die Casting



MES + FCT + CRM
Infrastructure



Easy to Install and
Service



Energy
Management

Battery Parameters

Model	GroundHV-7.5K	GroundHV-10K	GroundHV-12.5K	GroundHV-15K	GroundHV-17.5K	GroundHV-20K
Nominal Voltage	144V	192V	240V	288V	336V	384V
Connection	1P45S	1P60S	1P75S	1P90S	1P105S	1P120S
Voltage Working Range	114.7V-159.7V	153V-213V	191.2V-266.2V	230V-319V	267.7V-372.7V	306V-426V
Nominal Capacity	7.488kWh	9.984kWh	12.48kWh	14.976kWh	17.472kWh	19.968kWh
Weight	~80kg/176lb	~105kg/231lb	~129kg/284lb	~152.3kg/335lb	~176.2kg/388lb	~199.5kg/438lb
Dimensions (W*H*D)	606*730*220mm	606*900*220mm	606*1070*220mm	606*1240*220mm	606*1410*220mm	606*1580*220mm

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Single Phase HYSH Inverter

MODEL	HYSH-3000	HYSH-3680	HYSH-5000	HYSH-6000
BATTERY INPUT DATA				
Battery Type	Lead-acid or Li-Ion			
Battery Voltage Range / V	80-480			
Max. Charge/Discharge Current /A	25/25			
Charge Strategy for Li-Ion Battery	Self-adaption to BMS			
PV INPUT				
Max. PV Power / Wp	4950	5520	7500	9600
Max. Input Voltage / V	600			
Rated input voltage /V	360			
Start up voltage /V	70			
MPPT Voltage Range/ V	80-520			
Max. Input Current / A	13/13			
Max. Short Circuit Current / A	20/20			
No. of MPPTs / No. strings per MPPT	2/1			
AC OUTPUT/INPUT				
Rated Power / W	3000	3680	5000	6000
Max. Apparent AC Power from grid /VA	6600	7360	8500	10000
Max. Apparent Power / VA	3300	3680	5500	6600
Max. Output Current / A	15	16	23	27.3
Max. Current from grid / A	30	32	36	40
Output Frequency and Voltage / V	50/60Hz; L/N/PE 220/230/240			
Power Factor	0.8ind - 0.8cap			
THDi @ Rated Power	<3%			
EFFICIENCY				
Max. Efficiency	97.90%			
Euro Efficiency	97.40%			
MPPT Efficiency	99.90%			
Integrated	"Anti-Islanding Protection;PV String Input Reverse Polarity Protection;Insulation Resistance Detection; Residual Current Monitoring Unit;Output Over Current Protection;Output Short Circuit Protection; Over Voltage Protection;Battery Reverse Protection"			
Surge Protection	DC: Optional / AC: Type II			
COMMUNICATION				
Operating Ambient Temperature / °C	-25 ~ +60			
Cooling Method	Natural Cooling			
Communication with BMS	CAN/RS485			
Protection Class	IP65			

INTELLIGENT HIGH VOLTAGE THREE PHASE SOLAR SYSTEM

Three Phase HYTH Inverter Series + High Voltage Stackable Battery Series



Peak Efficiency
98.2 %



Max. DC Overload
50 %



Aluminum Alloy
Die Casting



MES + FCT + CRM
Infrastructure



Easy to Install and
Service



Energy
Management

Battery Parameters

Model	GroundHV-7.5K	GroundHV-10K	GroundHV-12.5K	GroundHV-15K	GroundHV-17.5K	GroundHV-20K
Nominal Voltage	144V	192V	240V	288V	336V	384V
Connection	1P45S	1P60S	1P75S	1P90S	1P105S	1P120S
Voltage Working Range	114.7V-159.7V	153V-213V	191.2V-266.2V	230V-319V	267.7V-372.7V	306V-426V
Nominal Capacity	7.488kWh	9.984kWh	12.48kWh	14.976kWh	17.472kWh	19.968kWh
Weight	80kg/176lb	105kg/231lb	129kg/284lb	152.3kg/335lb	176.2kg/388lb	199.5kg/438lb
Dimensions (W*H*D)	606*730*220mm	606*900*220mm	606*1070*220mm	606*1240*220mm	606*1410*220mm	606*1580*220mm

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Three Phase HYTH Inverter

MODEL	HYTH-8000	HYTH-10000	HYTH-12000	HYTH-15000
BATTERY INPUT DATA				
Battery Type	Lead-acid or Li-Ion			
Battery Voltage Range / V	160-800			
Max. Charge/Discharge Current /A	25/25			
Charging Curve	3 Stages			
Charge Strategy for Li-Ion Battery	Self-adaption to BMS			
PV INPUT				
Max. PV Power / W	12000	15000	18000	18000
Max. Input Voltage / V	1000			
Rated input voltage / V	620			
Start up voltage / V	145			
MPPT Voltage Range / V	150~850			
Max. Input Current / A	15/15			30/15
Max. Short Circuit Current / A	20/20			40/20
No. of MPPTs / No. strings per MPPT	2/ (1/1)			2/ (2/1)
AC OUTPUT/INPUT				
Rated Power / W	8000	10000	12000	15000
Max. Apparent AC Power from grid / VA	16500	16500	20000	22000
Max. Apparent Power / VA	8800	11000	13200	16500
Max. Output Current / A	13.5	16	20	24
Max. Current from grid / A	23	23	29	29
Output Frequency and Voltage / V	50/60Hz; 3L/N/PE 380/400			
Power Factor	0.8ind - 0.8cap			
TH Di @ Rated Power	<3%			
EFFICIENCY				
Max. Efficiency	98.20%			98.50%
Euro Efficiency	97.40%			97.5%
MPPT Efficiency	99.90%			
Integrated	Anti-Islanding Protection;PV String Input Reverse Polarity Protection; Insulation Resistance Detection; Residual Current Monitoring Unit;Output Over Current Protection; Output Short Circuit Protection; Over Voltage Protection;Battery Reverse Protection			
Surge Protection	DC: Type II / AC: Type II			
GENERAL DATA				
Operating Ambient Temperature / °C	-25 ~ +60			
Cooling Method	Natural Cooling			Smart Cooling Concept
Communication with BMS	CAN/RS485			
Protection Class	IP65			

INTELLIGENT HIGH VOLTAGE THREE PHASE SOLAR SYSTEM

Three Phase Hybrid Inverter Series + High Voltage Stackable Battery Series



WIDE RANGE
Voltage Range(150-800V)



UNBALANCE
Support Unbalance Load



PV OVERSIZE
S1.5Times PV Oversize



MAX.40A_{dc}
String Current Up To 40A



ups function
Switch Time<10ms



INPUT
Support Generator

Battery Parameters

Mode	GH02-16K	GH02-21K	GH02-27K	GH02-32K	GH02-37K	GH02-43K
Nominal Voltage	153.6V	204.8V	256V	307.2V	358.4V	409.6V
Connection	2P48S	2P64S	2P80S	2P96S	2P112S	2P128S
Voltage Working Range	114.7V-159.7V	153V-213V	191.2V-266.2V	230V-319V	267.7V-372.7V	306V-426V
Nominal Capacity	15.974kWh	21.299kWh	26.624kWh	31.949kWh	37.274kWh	42.598kWh

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Three Phase Hybrid Inverter

MODEL	HY15K-TH	HY20K-TH	HY25K-TH	HY30K-TH
PV INPUT				
Max. DC Input Power / kW	22.5	30	37.5	45
Rated DC Input Voltage / V	620			
DC input voltage Range / V	150-1000			
MPPT Voltage Range / V	150-850			
Star-up Voltage / V	160			
Max. DC Input Current / A	20+32	32+2	40*2	
No. of MPPTs Tracker	2/3	2/4	214	
BATTERY PORT				
Battery Nominal Voltage (V)	500	500	500	550
Battery Voltage Range (V)	150-800			
Max. Charge/Discharge Current (A)	50	50	60	60
Max.Charge/Discharge Power (kW)	15	20	25	30
Compatible Battery Type	Li-ion / Sodium-ion battery			
AC GRID				
Nominal Ac Output Power (kW)	15	20	25	30
Max. AC Input/Output Power (kVA)	22.5/16.5	30/22	37.5/27.5	45/33
Max. Ac Output Current(A)	27	32	40	48
Nominal Ac Voltage (V)	230/400			
Nominal AC Frequency (Hz)	50/60			
GENERAL DATA				
Dimensions (W* H* D)mm	558x535x260 mm			
Weight (kg)	29kg		36kg	
Display & Communication Interfaces	LCD.LED.RS485.CAN.Wi-Fi.GPRS.4G			
Enclosure Protect Level	IP65			



BCH-100230

100kW 230kWh Liquid-cooling Energy Storage Cabinet

CE CB MSDS IEC EMC UN38.3 CEI 0-21 CE-LVD



Product Advantages

● [Advanced Fire Protection Design]

Three-level fire protection, with built-in fire detectors, aerosol modules, sound and light fire alarms, EMS modules + Gateways, and immersion sensors.

● [Comprehensive Application Scenarios]

Can be used for photovoltaic self-use, peak shaving and valley filling.
Reserved for integrated systems, off-grid black start.

● [Three-Phase topology]

Three-phase four-branch inverter, with a three-phase imbalance coefficient of 0% and a power factor (PF) of 1.

● [Liquid Cooling System]

Circulating liquid cooling, low noise, low loss.

● [Intelligent Platform Operation and Maintenance]

SaaS all-day remote monitoring platform with data independence, real-time tariff collection, AI intelligent scheduling, 0.001Hz accuracy, and time scheduling can be completed within 0.2s.

● [Safety and Durability Appearance]

Outdoor cabinet anti-corrosion, flame retardant design, battery compartment IP65, electrical compartment IP54.

● [Highly Flexible Design]

Supports parallel operation of 2-10 units, with reserved MPPT expandable space.

● [Wide Range of Application Scenarios]

Can be used for photovoltaic self-use, peak shaving and valley filling, reserved integrated systems, and off-grid black start.

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Product Parameter

PV Interface	
PV Input voltage	300-570Vdc
Max PV Input Power	100KW
Number of PV String	1
Max PV Input Current	200A
Max PV Open Circuit Voltage	600V

BATTERY PARAMETER	
Cell Type	LiFePO4
Cell Specification	3.2V/100Ah
System Configuration	3P240S
Rated Capacity	230.4kWh
Voltage Range	684~852V

AC PARAMETERS(ON-GRID)	
Rated Output Power	100kW
Rated Output Current	140A
AC Connection Method	Three phase four-wire system
Grid Voltage Range	400V (-20%~+15%)
Grid Frequency Range	50Hz/60Hz±2.5Hz

AC PARAMETERS(OFF-GRID)	
AC off-grid Voltage	AC400V
AC Voltage Range	AC400V±3%
AC off-grid Frequency	50Hz/60Hz
Unbalanced Load Capability	100%

GENERAL PARAMETERS	
Dimension(W*D*H)	1320*1280*2370mm
Max Weight	2500KG
Operating Temperature Range	-20°C~50°C
Working Altitude	< 2000m
Temperature Control Method	Battery: Liquid Cooling; Electrical compartment: wind Cooling

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Enerlution

tuya[®]

BCH-3083/50104

30kW 83kWh / 50kW 104kWh air-cooling photovoltaic storage integrated energy storage cabinet.

CE CB MSDS IEC EMC UN38.3 CE-LVD

Product Advantages

● [Complete Certification]

Products comply with IEC 61850 standards.

● [Safety and Durability Appearance]

Outdoor cabinet anti-corrosion, flame retardant design, battery compartment IP65, electrical compartment IP54.

● [Three-Phase topology]

Three-phase four-branch inverter, with a three-phase imbalance coefficient of 0% and a power factor (PF) of 1.

● [Advanced Fire Protection Design]

Three-level fire protection, with built-in fire detectors, aerosol modules, sound and light fire alarms, EMS modules + Gateways, and immersion sensors.

● [Intelligent Platform Operation and Maintenance]

SaaS all-day remote monitoring platform with data independence, real-time tariff collection, AI intelligent scheduling, 0.001Hz accuracy, and time scheduling can be completed within 0.2s.

● [Highly Flexible Design]

Off-grid can support up to 4 units in parallel, easy to expand the system

● [Wide Range of Application Scenarios]

Can be used for photovoltaic self-use, peak shaving and valley filling, reserved integrated systems, and off-grid black start.



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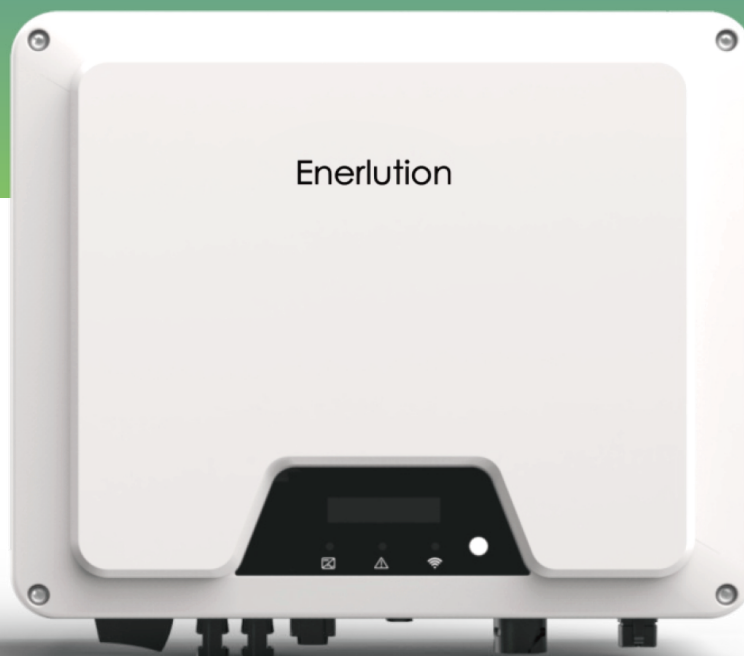


Product Parameter

MODEL	BCH-3083	BCH-50104
CELLS		
Specifications	IFP50160116A-102Ah	
type	LFP	
Nominal voltage	3.2V	
Nominal capacity	102Ah	
Cycle times	≥6000(@25C, 80%EOL)	
BATTERY INFORMATION		
Combination	2P128S	2P160S
Rated capacity	204Ah	204Ah
Rated power	83kWh	104.448kWh
Rated voltage	409.6V	512V
Optional voltage range	364.8~454.4V	456~568V
Rated current	100A	100A
Modules quantity	8PCS	10PCS
INVERTER INFORMATION		
Inverter model	SOLITEG: MHT-30K-100	SOLITEG: MHT-50K-100
PV INPUT PARAMETERS		
Recommend power (kW)	45	75
Startup voltage (V)	135	
Max. DC Input voltage (V)	1000	
Rated. DC input voltage (V)	620	
MPPT Working voltage range (V)	200~850	
MPPT Strings	4	
Single MPPT input string	2	
Max.Input current	30*4	
Max. Shortage current	40*4	
AC SIDE (GRID)		
Rated output power (kW)	30	50
Maximum output apparent power (kVA)	33	55
Maximum input apparent power (kVA)	36	60
Rated voltage	3L/N/PE;220/380V;230/400V;240/415V	
Grid frequency (Hz)	50/60	
Maximum output current (A)	50	83
DC SIDE(OFF GRID)		
Rated output power (kW)	30	50
Maximum output apparent power (kVA)	33	55
Maximum output current (A)	50	83
UPS Switch time	< 20ms	
Rated output voltage	3L/N/PE;220/380V;230/400V;240/415V	
Rated AC frequency	50/60	

HYSH **3000-6000**

HIGH VOLTAGE SINGLE PHASE HYBRID INVERTER



Peak Efficiency
97.9 %



Max. DC Overload
60 %



Aluminum Alloy
Die Casting



MES + FCT + CRM
Infrastructure



Easy to Install and
Service



Energy
Management

Certification & Approvals: CE/IEC LVD、CE/IEC EMC、TUV Mark 、
EN50549、EN50549-1、UNE217001:2020+NTS

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HYSH

MODEL	HYSH-3000	HYSH-3680	HYSH-5000	HYSH-6000
PV INPUT				
Max. PV Power / Wp	4950	5520	7500	9600
Max. Input Voltage / V	600	600	600	600
MPP Voltage Range/ V	80-520	80-520	80-520	80-520
Start up voltage /V	70	70	70	70
Rated input voltage /V	360	360	360	360
Max. Input Current / A	13/13	13/13	13/13	13/13
Max. Short Circuit Current / A	20/20	20/20	20/20	20/20
No. of MPPTs / No. strings per MPPT	2/1	2/1	2/1	2/1

AC OUTPUT/INPUT				
Rated Power / W	3000	3680	5000	6000
Max. Apparent Power / VA	3300	3680	5500	6600
Max. Apparent AC Power from grid / VA	6600	7360	8500	10000
Rated Grid Voltage / Vac	220/230/240	220/230/240	220/230/240	220/230/240
Grid Connection	L-N-PE	L-N-PE	L-N-PE	L-N-PE
Rated Frequency / Hz	50/60	50/60	50/60	50/60
Max. Output Current / A	15.0	16.0	23.0	27.3
Max. Current from grid / A	30.0	32.0	36.0	40.0
Power Factor	0.8ind - 0.8cap	0.8ind - 0.8cap	0.8ind - 0.8cap	0.8ind - 0.8cap
TH Di @ Rated Power	<3%	<3%	<3%	<3%

AC OUTPUT (BACK-UP)				
Rated Power / W	3300	3680	5000	6000
Peak Apparent Output Power / VA	3960	4416	6000	7200
Rated Output Voltage / V	230	230	230	230
Rated Output Frequency / Hz	50/60	50/60	50/60	50/60
Max. Output Current / A	15.0	16.0	23.0	27.3
Auto Switch Time / ms	<10	<10	<10	<10
THDV@Linear Load	<2%	<2%	<2%	<2%

BATTERY INPUT		EFFICIENCY	
Battery Type	Li-ion	Max. Efficiency	97.9%
Input Voltage Range / V	80-480	Euro. Efficiency	97.4%
Max. Charging/Discharging Current / A	25/25	MPPT Efficiency	99.9%
Charging Strategy for Li-Ion Battery	Self-adaption to BMS	Charging Efficiency© PV-Battery	98.0%
		Charging/Discharging Efficiency© Battery<-> Grid/Load	97.0%

PROTECTION FUNCTION			
Anti-Islanding Protection	Integrated	Residual Current Monitoring Unit	Integrated
PV String Input Reverse Polarity Protection	Integrated	Output Over Current Protection	Integrated
Insulation Resistance Detection	Integrated	Output Short Circuit Protection	Integrated
		Over Voltage Protection	Integrated
		Surge Protection	DC: Optional / AC: Type II
		Battery Reverse Protection	Integrated

GENERAL DATA			
Dimensions (W*H*D) / mm	435*351*160	Communication with Cloud	RS485/Wi-Fi/4G/LAN (optional)
Weight / kg	13.8	Relative Humidity / %	0-100
User Interface	LED&LCD	CT Connection Type	Plug-in Connector
DC Connection Type	MC4	Communication with BMS	CAN/RS485
Battery Connection Type	SUNCLIX	Communication with Meter	RS485
AC Connection Type	Plug-in Connector	Cooling Method	Natural Cooling
		Operating Ambient Temperature / °C	-25 ~ +60
		Max. Operating Altitude / m	3000 (>3000 Derating)
		Climatic Category (1 EC 60721-3-4)	4K4H
		Protection Class	IP65
		Topology	Transformerless
		Night Consumption / W	<5

HYTH **5000-15000**

THREE PHASE HYBRID INVERTER



Peak Efficiency
98.2 %



Max. DC Overload
50 %



Aluminum Alloy
Die Casting



MES + FCT + CRM
Infrastructure



Easy to Install and
Service



Energy
Management

Certification & Approvals: CE/IEC LVD、CE/IEC EMC、TUV Mark 、EN50549

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AC OUTPUT/INPUT

Rated Power / W	5000	6000	8000	10000	12000	15000
Max. Apparent Power / VA	5500	6600	8800	11000	13200	16500
Rated Active Power from Grid / W	10000	12000	15000	15000	18000	20000
Max. Apparent Power from Grid / VA	11000	13200	16500	16500	20000	22000
Rated Grid Voltage / V	380/400	380/400	380/400	380/400	380/400	380/400
Grid Connection	3L-N-PE	3L-N-PE	3L-N-PE	3L-N-PE	3L-N-PE	3L-N-PE
Rated Grid Frequency / Hz	50/60	50/60	50/60	50/60	50/60	50/60
Max. Output Current / A	8.5	10.0	13.5	16.0	20.0	24.0
Max. Current From Grid / A	17.0	20.0	23.0	23.0	29.0	29.0
Power Factor	0.8ind - 0.8cap	0.8ind - 0.8cap	0.8ind - 0.8cap	0.8ind - 0.8cap	0.8ind - 0.8cap	0.8ind - 0.8cap
TH Di @ Rated Power	<3%	<3%	<3%	<3%	<3%	<3%

AC OUTPUT (BACK-UP)

Rated Output Power / W	5000	6000	8000	10000	12000	12000
Peak Apparent Output Power / VA	10000	12000	15000	15000	15000	15000
Rated Output Voltage / V	380/400	380/400	380/400	380/400	380/400	380/400
Rated Output Frequency / Hz	50/60	50/60	50/60	50/60	50/60	50/60
Max. Output Current / A	8.5	10.0	13.5	16.0	20.0	20.0
Auto Switch Time / ms	<10	<10	<10	<10	<10	<10
THDV@Linear Load	<3%	<3%	<3%	<3%	<3%	<3%

EFFICIENCY

Max. Efficiency	98.0%	98.0%	98.2%	98.2%	98.2%	98.5%
Euro. Efficiency	97.3%	97.3%	97.3%	97.4%	97.4%	97.5%
MPPT Efficiency	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%
Charging Efficiency PV-> Battery	98.5%	98.5%	98.5%	98.5%	98.5%	98.5%
Charging/Discharging Efficiency @ Battery<->Grid/Load	97.6%	97.6%	97.6%	97.6%	97.6%	97.6%

BATTERY INPUT

Battery Type	Li-Ion	Max. Charging/Discharging Current / A	25/25
Battery Voltage Range / V	160-800	Charging Strategy for Li-Ion Battery	Self-adaption to BMS

PV INPUT

Max. PV Power / W	HHT-5000	7500	Max. Input Voltage / V	1000	Max. Short Circuit Current / A	HHT-5000 - 12000	20/20		
	HHT-6000	9000		MPP Voltage Range / V		150~850	HHT-15000	40/20	
	HHT-8000	12000		Start Up Voltage / V	145	No. of MPPTs/ No. Strings Per MPPT	HHT-5000 - 12000	2/ (1/1)	
	HHT-10000	15000		Rated Input Voltage / V	620		HHT-15000	2/ (2/1)	
	HHT-12000	18000		Max. Input Current / A	HHT-5000 - 12000		15/15		
	HHT-15000	18000			HHT-15000		30/15		

PROTECTION FUNCTION

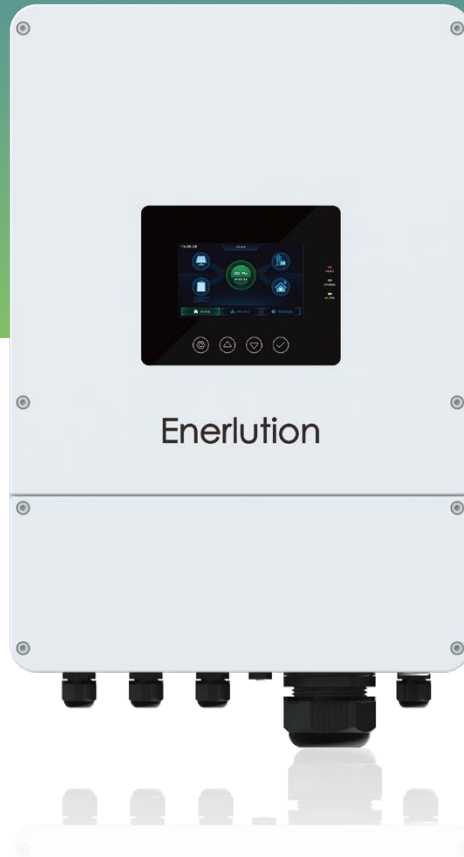
Anti-Islanding Protection	Integrated	Residual Current Monitoring	Integrated	Over Voltage Protection	Integrated
PV String Input Reverse Polarity Protection	Integrated	Output Over Current Protection	Integrated	Surge Protection	DC: Type II / AC: Type II
Insulation Resistance Detection	Integrated	Output Short Circuit Protection	Integrated	Battery Reverse Polarity Protection	Integrated

GENERAL DATA

Dimensions (W*H*D) / mm	425*351*200	AC Connection Type	Plug-in Connector	Operating Ambient Temperature / °C	-25 ~ +60
Weight / kg	HHT-5000 - 12000	Communication with Cloud	RS485/Wi-Fi/4G/LAN (optional)	Relative Humidity / %	0-100
	HHT-15000	Communication with BMS	CAN,RS85	CT Connection Type	Plug-in Connector
Noise Emission (Typical) / dB(A)	40	Communication with Meter	RS485	Max. Operating Altitude / m	2000 (>2000 Derating)
User Interface	LED/LCD	Cooling Method HHT-5000 - 12000	Natural Cooling	Climatic Category (1 EC 60721-3-4)	4K4H
PV Connection Type	Mc4	Cooling Method HHT-15000	Smart Cooling Concept	Protection Class	IP65 Topology Transformerless
Battery Connection Type	SUNCLIX			Night Consumption / W	<13

HY 4-6k-EU

SINGLE PHASE HYBRID INVERTER



Product Advantages

- Up to 6 units in parallel for SP
- Comprehensive protection
- Simple to install and easy to use
- Time-slot charging & discharging
- Up to 100A charging current
- Up to 99.9% MPPT tracking efficiency
- Support Li-ion battery BMS communication and BMS dual activation

Certification & Approvals: CE/IEC LVD、CE/IEC EMC、EN50549

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Single Phase ESS Hybrid Inverter

MODEL	HY-4K-EU	HY-4.6K-EU	HY-5K-EU HY-5.5K-EU	HY-6K-EU
OFF-GRID OUTPUT				
Rated Output Power	4,000W	4,600W	5,500W	6,000W
Rated Output Voltage	230Vac, single-phase or three-phase when in parallel			
ON-GRID OUTPUT				
Rated Output Power	4,000W	4,600W	5,500W	6,000W
Max. Apparent Power	8,000VA	9,200VA	11,000VA	12,000VA
Rated Output Current	17.4A	20A	24A	26A
Max. Output Current	19.1A	22A	26.4A	28.6A
Rated Output Voltage	230Vac, single-phase or three-phase when in parallel			
BATTERY				
Battery Type	Lead-acid / Li-ion / User-defined			
Rated Battery Voltage	48Vdc			
Battery Voltage Range	40 ~ 60Vdc			
Max. Utility Charging Current	60A			
Max. Generator Charging Current	60A			
Max. Hybrid Charging Current	100A			
PV INPUT				
Num. of MPPT	2			
Max. PV Array Power	3000W+3000W	3500W+3500W	4000W+4000W	4500W+4500W
Max. Input Current	16A+16A			
Max. Open-circuit Voltage	500Vdc+500Vdc			
UTILITY / GENERATOR INPUT				
Input Voltage Range	90 ~ 280Vac			
Input Frequency Range	50/60Hz			
Bypass Overload Current	40A			
GENERAL				
Num. of Parallel	1 ~ 6 units			
Dimensions	556*345*182mm			
Weight	20kg			
Protection Degree	IP65			
Operating Temp. Range	-25~60°C, >45°C derated			
Cooling Method	heatsink & intelligent air cooling			
Warranty	5 years			
COMMUNICATION				
Internal Interface	RS485 / CAN / USB / Dry contact			
External Module (optional)	Wi-Fi / GPRS			
Certification & Approvals	CE/IEC LVD、CE/IEC EMC、EN50549			

HY 15-30k-TH

THREE PHASE HYTH INVERTER SERIES



WIDE RANGE

Voltage Range(150-800V)



UNBALANCE

Support Unbalance Load

Max.
1.5

PV OVERSIZE

Support 1.5Times PV Oversize

Max.
40A

MAX.40A_{dc}

String Current Up To 40A

<**10**
ms

ups function

Switch Time<10ms



INPUT

Support Generator

Certification & Approvals: CE/LEC、LVD、CE/IEC EMC、EN50549、VDE4105、C10/11、CEI1021

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Three Phase hybrid Inverter

MODEL	HY15K-TH	HY20K-TH	HY25K-TH	HY30K-TH
PV INPUT				
Max. DC Input Power / kW	22.5	30	37.5	45
Rated DC Input Voltage / V	620			
DC input voltage Range / V	150-1000			
MPPT Voltage Range / V	150-850			
Star-up Voltage / V	160			
Max. DC Input Current / A	20+32	32+2	40*2	
No. of MPPTs Tracker	2/3	2/4	214	
BATTERY PORT				
Battery Nominal Voltage (V)	500	500	500	550
Battery Voltage Range (V)	150-800			
Max. Charge/Discharge Current (A)	50	60		
Max.Charge/Discharge Power (kW)	15	20	25	30
Compatible Battery Type	Li-ion / Sodium-ion battery			
AC GRID				
Nominal Ac Output Power (kW)	15	20	25	30
Max. AC Input/Output Power (kVA)	22.5/16.5	30/22	37.5/27.5	45/33
Max. Ac Output Current(A)	27	32	40	48
Nominal Ac Voltage (V)	230/400			
Nominal AC Frequency (Hz)	50/60			
GENERAL DATA				
Dimensions (Wx Hx D.mm)	558x535x260 mm			
Weight (kg)	29kg		36kg	
Display & Communication Interfaces	LCD.LED.RS485.CAN.Wi-Fi.GPRS.4G			
Relatively Humidity	0 - 100 %			
Operating Temperature Range (°C)	- 25 to 60 °C			
Operating Altitude (m)	< 4000			
EMC	EN61000-6-2, EN61000-6-3			
Certification & Approvals	CE/LEC、LVD、CE/IEC EMC、EN50549、VDE4105、C10/11、CEI1021			

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Micro-inverter Series



400W-VN1T04

400W-VN1T104 800W-VN2T108

- 1/2 PV panels
- IP67
- Safety relay inside
- Suitable for crystalline silicon and thin film PV panel



800W-VN2T08

	400W-VN1T04	800W-VN2T08
Input Date (DC)		
Recommended Module Power [W]	300~550	300~550
Start up Voltage per input [V]	18	18
Mppt Voltage Range per Input [V]	16~60	16~60
Max. Input Voltage per Input [V]	a60	60
Max. Input Current per Input [A]	13	13
Max. Input Short-circuit Current per Input [A]	38	38
Output Date (DC)		
Max. Continous Output Power [VA]	400	800
Nominal Continous Output Power [W]	400	800
Nominal Output Current [A]	1.74	3.48
Max. Output Current [A]	2.48	5.2
Nominal Output Voltage [V]	220/230/240,L-N-PE	220/230/240,L-N-PE
Nominal Frequency [Hz]	50/60	50/60
Power Factor	>0.99 default,0.8 leading ... 0.8 lagging	>0.99 default, 0.8 leading ... 0.8 lagging
Outout Current Harmonic Distortion	<3%	<3%
Max. Units Per Branch	9	4
Efficiency		
CEC Weighted Efficiency	95.50%	95.50%
EU Efficiency	95.30%	95.30%
MPPT	99.90%	99.90%
Night Time Power Consumption [mW]	<50	<50
Mechanical Date		
Dimensions(W*H*D mm)	184*182*42	225*217*30
Weight [kg]	1.5	1.9

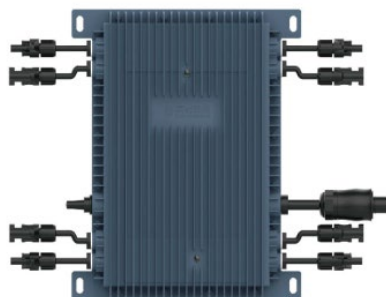
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Micro-inverter Series



1200W-VN4T12

1200W-VN4T12 1600W-VN4T16

- 4PV panels
- IP67
- Safety relay inside
- Suitable for crystalline silicon and thin film PV panel



1600W-VN4T16

	1200W-VN4T12	1600W-VN4T16
Input Date (DC)		
Recommended Module Power [W]	300~550	300~550+
Start up Voltage per input [V]	18	18
Mpvt Voltage Range per Input [V]	16~60	16~60
Max. Input Voltage per Input [V]	60	60
Max. Input Current per Input [A]	13	13
Max. Input Short-circuit Current per Input [A]	38	38
Output Date (DC)		
Max. Continuous Output Power [VA]	1200	1600
Nominal Continuous Output Power [W]	1200	1600
Nominal Output Current [A]	3.48	7
Max. Output Current [A]	7.8	10.5
Nominal Output Voltage [V]	220/230/240, L-N-PE	220/230/240, L-N/-PE
Nominal Frequency [Hz]	50/60	50/60
Power Factor	>0.99 default, 0.8 leading ... 0.8 lagging	>0.99 default, 0.8 leading ... 0.8 lagging
Output Current Harmonic Distortion	<3%	<3%
Max. Units Per Branch	3	2
Efficiency		
CEC Weighted Efficiency	95.50%	95.50%
EU Efficiency	95.30%	95.30%
MPPT	99.90%	99.90%
Night Time Power Consumption [mW]	<50	<50
Mechanical Date		
Dimensions(W*H*D mm)	342*223*30	342+223*30
Weight [kg]	3.2	3.2

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URA-MESS1



URA-MESS1 is an energy storage system specially designed for the balcony solar system, The intelligent control system can control the discharge duration and ensure that the energy can be stored simultaneously, The solar power is converted to AC power through a micro-inverter to provide power for your home appliances such as Wi-Fi routers, lighting fixtures, and laptops The excess energy is intelligently stored in the battery for night use, saving up to 30% of annual electricity bills.

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Features



EXPANDABLE CAPACITY
2240Wh~6720Wh



HIGH POWER PERFORMANCE
1000W PV Input/800W DC Output



DIY INSTALLATION
Plug-And-Play



LONG LIFESPAN
Over 10 Years Lifecycle 6000+Times

▶ Technical Specification

BATTERY

Capacity	2240Wh, expanded to 6720Wh for 3 units
Nominal Voltage	44.8VDC
Cell Type	LFP
Life Cycles	6000+@25°C
BMS	OVP,UVP,SOC,SOH,OTP,UTP,etc
DOD	95%

INPUT

PV Input Power	500W*2
PV Input Voltage	12-59 VDC

OUTPUT

DC Output Power	400W*2 Max
DC Output Voltage	42~50.4VDC
DC Output Nominal Voltage	44.8 VDC

MECHANICAL

Dimension(W*H*D)(mm)	298*175*353
Net Weight (kg)	18.7
IP Protection	IP65

ENVIRONMENTAL

Operating Temperature	-10°C~50°C
Storage Temperature	-10°C~50°C

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5MWh⁺

Liquid Cooling Energy Storage System



5068kWh
High Energy

12000cycles
Long Life Span

4-Layer
Protection
High Safety

20ft x 4
Standarization

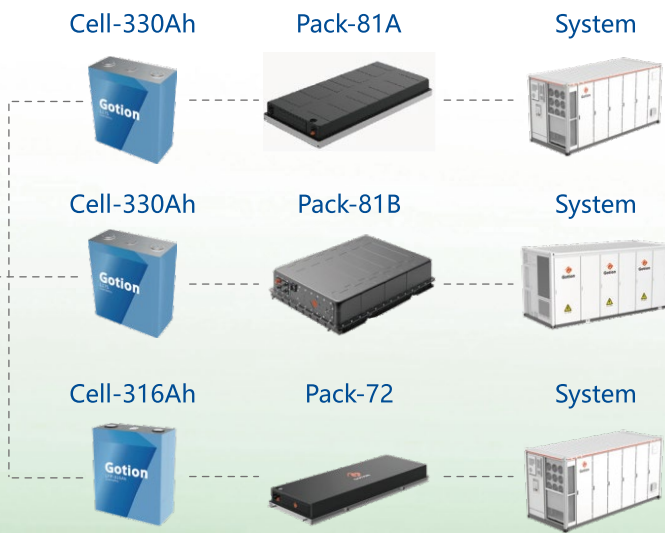
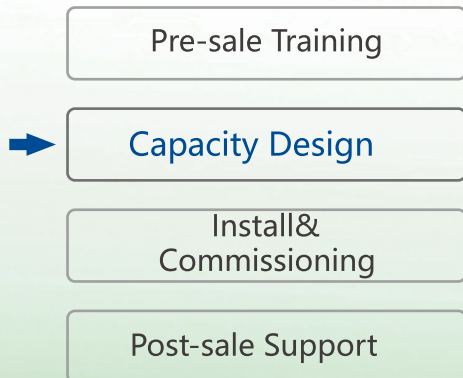
3 °C
Intelligent
Temperature
Control

56%
Occupied Area
Saved



- ✓ High System Energy Density
- ✓ Customization Pack
- ✓ High Space Utilization
- ✓ BMS Integrated Development
- ✓ Low Cost & Less Covering Area

ESS Product Solutio



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Model		5MWh ⁺		
Electrical				
Cell Model	LFP81175200A-330Ah	LFP81175200A-330Ah	LFP81175200A-316Ah	
Pack Configuration	IP44S	IP100S	IP104S	
Nominal Capacity (kWh)	5018	5068	5047	
Voltage Range (Vdc)	990-1445.4	1000-1460	1040-1497.6	
System Specification	1267V	1280V	1331V	
Conditions				
Storage Temperature (°C)	-30~60			
Operating Temperature (°C)	-30~60			
Working Relative Humidity(%)	0~95 (non-condensing)			
Altitude(m)	<3000 (≥3000 derating)			
Parameters				
Ingress protection	IP55			
Thermal Management	Liquid-cooled Temperature Control+Air Conditioning (liquid cooler built-in system)			
Communication Interface	CAN,RS485,Ethernet			
Communication Protocol	Modbus-TCP/IP			
Fire Suppression System	Explosion-proof+Smoke extraction+PACK-rated submerged fire extinguishing +Gas estinguishing system+Water sprinkler system			
Standards&Certification* (Ongoing)	GB/T36276,UL1973,UL9540,UN38.3,UN3536,IEC62477,IEC60370 IED61000,IEC62619,NFPA855 Compliant			
Dimensions(W*D*H)mm	6058*2438*2896 (20ft Container)			
Weight(T)	≤43			



Liquid Cooling Energy Storage System II

ESD1267-05P3421



Excellent Security

1st Protection Stage Cell Thermal Runaway

- Real-time monitoring of cell temperature
- Cell thermal runaway is suppressed in the battery module via rapid immersion
- Battery temperature drops below critical temperature (No disintegration of battery diaphragm)

2nd Protection Stage Complete Fire Fighting System

- Battery module immersion fire extinguishing with a protection efficiency of over 90%
- Temperature+Smoke+Gas detection and early warning+Explosion-proof exhaust and ventilation
- Fully submerged Novec1230 extinguishing +fire water sprinkler system

3rd Protection Stage Multiple Anti-leakage Design

- Dry wet separation design: An integrated die-cast structure of the liquid cooling plate and pipeline
- Pipe leakage detection system: Leakage detector+leakage alarm notice
- Intelligent cabinet detector: Battery cabinet leakage detection system →BMS System→O&M Staff

Cell



Module



Pack



Rack



System



- ✓ High Energy Density
- ✓ Large Capacity
- ✓ Intelligent Temperature Control



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3421kWh
High Energy

12000
cycles
Long Life Span





4-Layer
Protection
High Safety

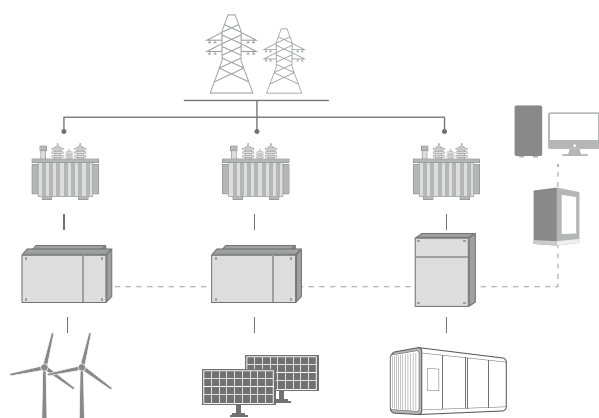
20ft
Standardization

3 °C
Intelligent
Temperature
Control

Low LCOS
Scientific
Design

ESS Product Solution

-  Capacity Design
-  Pre-sales Service
-  Installation & Commissioning
-  After-sale Guarantee



Enerlution Offering



Localized
Factory



Equipment
Supply



Construction/
Commission



Extended
Warranties



After-sales
Service



Financing
Service

Electrical

Cell Type	LFP-300Ah
Max. Temperature Difference	3°C
Configuration	Pack:1P44S Rack:1P396S Container System: 9P396S
Rated Energy (kWh)	Pack: 42.2 Rack:380.2 Container System: 3421.4
Rated Voltage (Vdc)	Pack: 140.8 Rack/Container System: 1267.2
Recommended Voltage(Vdc)	Pack:123.2-158.4 Rack/Container System:1108.8 ~ 1425.6
Max. Charge/Discharge Rate	0.5P@25°C
Max. Charge Power(kW)	1710.7 (0.5P)

Conditions

Storage Temperature(°C)	-30~60
Operating Temperature(°C)	-30~50
Working Relative Humidity(%)	0~95(non-condensing)
Altitude (m)	<3000(≥3000 derating)

Parameters

Ingress Protection	IP54
Cooling	Liquid Cooling
Communication Interface	CAN, RS485, Ethernet
Communication Protocol	Modbus-TCP/IP
Fire Suppression	Pack level Temperature/Smoke/ Gas Detector + Water FSS/ Novec1230
Standards & Certification	GB/T36276, UL1973, UL9540, UL9540A, UN38.3, UN3536, IEC62477, IEC60730, IEC61000, IEC62619, NFPA855 Compliant
Dimensions (W * D * H)mm	20ft Container 6058 x 2438 x 2896
Weight (T)	<37

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