Enerlution

www.enerlution.com.cn

Enerlution Power Technology Co.,Ltd.

No. 33, Qiuju Road, Baiyan Science and Technology Park, High-tech Zone, Hefei, China

E-mail：susan@enerlution.com.cn　WhatsApp：+86 187 5518 8783

Enerlution

YOUR LOCAL ENERGY PARTNER

Residential & Commercial Storage Solutions | Certified Safe

Contents

Building a Sustainable
Green Energy Ecosystem

ABOUTA US	01
Energy Management System	03
(C&I) Energy Storage System	05
Inverter Products	13
Low-voltage Residential Storage Products	19
High-voltage Residential Storage Products	29
All-in-one Systems	35
Portable Power Stations	39
Project Applications	41

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ABOUT US

Founded in 2017, **Enerlution Power Technology Co., Ltd. (Enerlution)** is a national high-tech enterprise specializing in residential and small-scale distributed energy storage solutions.

With strong capabilities in EMS, BMS, and full-lifecycle battery thermal and safety management, Enerlution has developed multiple proprietary technologies with industry-leading performance. Supported by a top-tier R&D team, 190+ patents, and fully automated smart manufacturing with MES traceability, our products deliver long service life, wide temperature operation, and exceptional safety.

All systems are TÜV Rheinland tested, CE & CB certified, and compliant with VDE and international safety and EMC standards, ensuring global market readiness.

Enerlution provides full-scenario energy storage solutions with flexible MOQs and deep OEM/ODM customization. With European-localized technical teams, overseas warehouses, regional service centers, and a cloud-based remote O&M platform, we offer end-to-end support for global partners—powering a cleaner and more sustainable energy future.

12000㎡
Factory Area

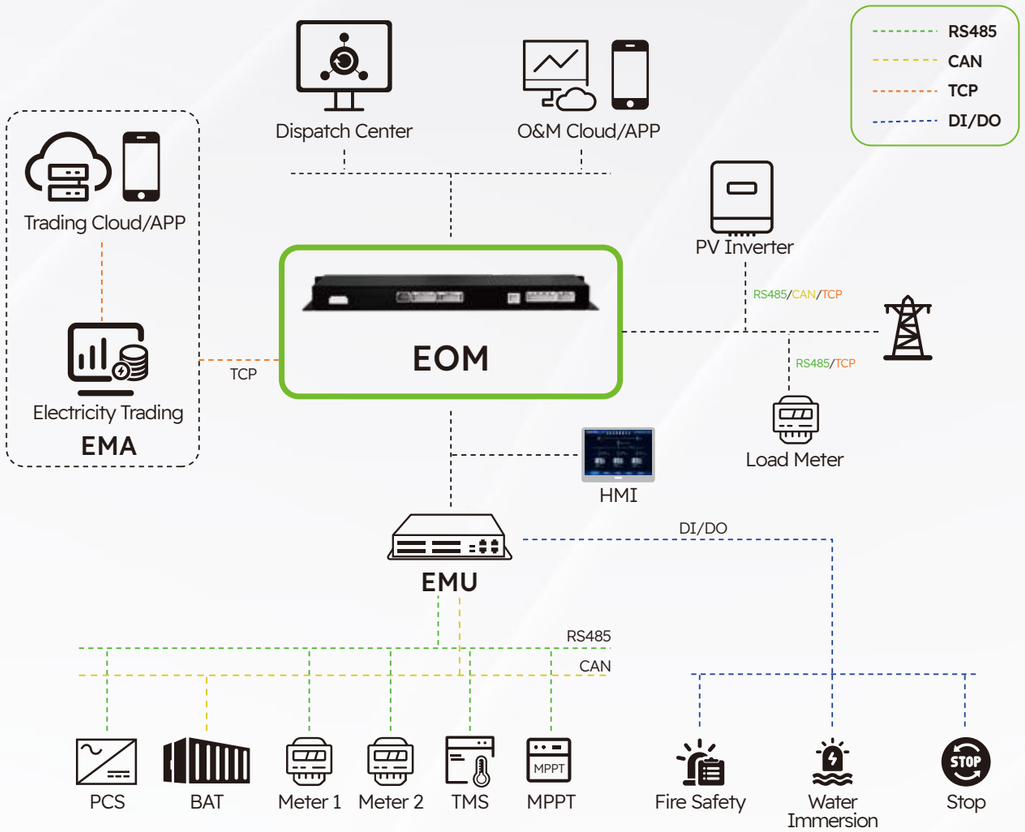
2⁺GWh
Annual Capacity

10+
Industry Experience

190+
Utility Patents

Energy Management System (EMS)

Automotive-Grade Standards, Defining the Brain of ESS



EMA: Energy Manket Application EOM: Energy Operations Manager EMU: Energy Management Uint

- **Total Safety · Automotive Grade**
  - ASIL-B Certified: Compliance with automotive standards.
  - Multi-layer Safety: Full hardware & software protection.
  - Secure Boot: SecureBoot for low-level safety.
- **Worry-free Operation · Smart O&M**
  - Fault Isolation: UDS-based precise fault location.
  - Panoramic Monitor: Million-level data proactive alerts.
  - Cost Reduction: Cloud-based management lowers costs.
- **Dynamic Monitoring · Precision Control**
  - MBD-Based Control and Millisecond-Level Real-Time Response.
  - Revenue Optimization: Dynamic estimation for optimal returns.
  - Intelligent Longevity: Self-calibration for longer life.
- **Advanced Architecture · Rapid Upgrades**
  - Efficient Architecture: Modular AUTOSAR software design.
  - Global Connectivity: Million-level data instant access.
  - Remote Upgrades: High-speed OTA for multi-projects.

EMS Cloud Platform

An advanced EMS designed to reduce operational risk, stabilize returns, and support long-term energy storage projects.

Application Scenarios

One EMS Platform. Multiple Real-World Applications.
Designed for long-term, reliable energy storage operation.

Commercial & Industrial ESS
Cut electricity costs. Simplify operation.

PV + ESS Systems
Use more solar. Use less grid.

Microgrid & Off-Grid
Stable power under unstable grids.

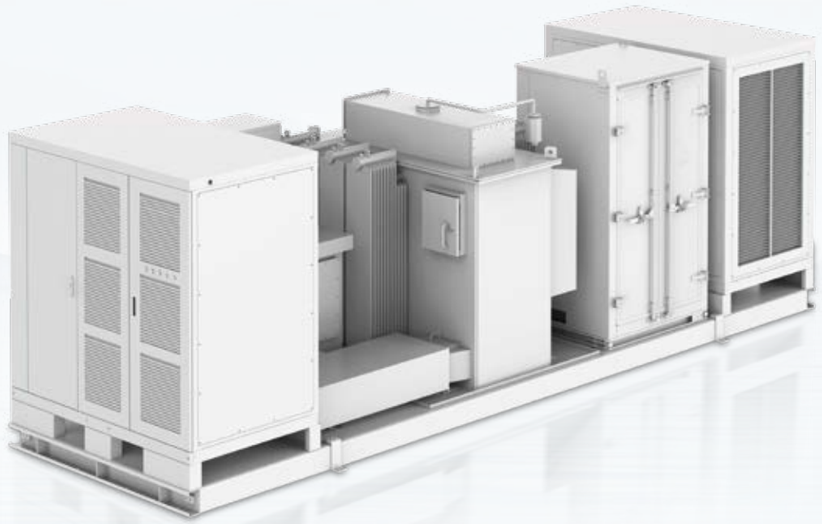
Backup Power & Critical Loads
Power continuity when it matters most.

Multi-Site & Scalable Projects
Grow from one site to many.

Hybrid Energy Systems
Seamless multi-energy coordination

SES3-252-MV-EX-Skid

Integrated Inverter Booster Unit



Flexible Configuration

Modular Power, Scalable Deployment

Grid Support

LVRT / HVRT, Four-Quadrant Control

High Integration

PCS and Booster Integrated Design

High Efficiency

1500V Platform, Loop Current Prevention

Intelligent Collaboration

Peak Shaving, Multi-Mode Control VSG / PQ / VF

Fast Response

Millisecond-Level Power Response (<10ms)

Technical Specification

MODEL	SES3-252-MV-EX-Skid
LV EQUIPMENT	
Nominal power	2580kVA
DC voltage range	1000~1500V
Full load voltage range	1070~1500V
Number of DC branches	2*1/6
Maximum DC current	1248A
Voltage regulation accuracy	≤±1%
Current regulation accuracy	≤±1%
LC AND AUXILIARY EQUIPMENT	
PCS embedded	PWS1-1725KTL-H-6MX-EX(6 Modules)
Aux. Transformer	100kVA \ 690400V
UPS	Up to 1kVA (0.5h standard)(Consult with Enerlution for more capacity)
Meter	Meters for Aux. Power Consumption and PCS
Communication method	Gateway
Cooling Method	Temperature controlled forced air cooling
Output Power	400V / 50Hz 3P4W (Power supply for external equipment)
MV EQUIPMENT	
Nominal AC power	2580kVA@45℃
Transformer Vector	Oil-immersed transformer
Transformer protection	Protection relay for pressure, temperature (two levels)and gas.
Oil retention tank	Galvanized steel. Integrated with hydrocarbon filter.Optional
Switchgear configuration	DeV / CV (RMU)
Switchgear protection	Circuit breaker (V)
Switchgear short circuitrating	20 kA 1s(Consult with Enerlution for customized)
Transformer winding type	Dy11y11(Consult with Enerlution for customized)
Overload capability	100%
MV AC voltage	10kV-33kV(Consult with Sinexcel for other voltage level)
LV AC voltage	690V(Consult with Sinexcel for other voltage level)
AC frequency	50Hz\60Hz
Transformer impedance	5.75%~8%
Cooling type	KNAN
THDi	≤3%
AC PF	0.99/-1~1
Insulation Level	A
Compliance	IEC62477/IEC61000/G99/VDE4110/VDE4120/EN50549-2
CONNECTION AND PROTECTION	
LV-MV connections	Copper bar or cable
LV protection	Motorized CB in PCS
MV protection	Microcomputer protection
GENERAL PARAMETER	
Size (W*H*D)	7600*2553*2200 mm
Weight	20t
Enclosure	IP54
Corrosion Prevention	C4
Operating temp	-30℃ to 55℃ (De-rating over 45℃)
Storage temp.	-50℃ to 70℃
Cooling	Air cooling
Humidity	0~95%(No condensing)
Max elevation	Standard 1000m/3300feet(Consult with Enerlution for other elevation)
Communication parameters	
Communication	RS 485,Ethernet,CAN

3MWh+

Liquid cooling Energy Storage System II

Protection Design

- Dry/wet separation design by an integrated die-casting structure of the liquid cooling plate and pipeline

1st Level Protection

- Continuous cell level temperature monitoring from BMS
- Abnormal Cell Temperature Rise Alarm
- PACK-level submerged fire extinguishing system for thermal runaway suppression, tested and proven with no reignition after 24 hours

2nd Level Protection

- Thermal, Smoke, Combustible Gas Detection and Alarm
- Liquid Leakage Detection
- Active Ventilation and Exhaust System
- Pressure Relief System
- FK 5-1-12 Automatic Dry Agent Fire Extinguishing System

3rd Level Protection

- Prefabricated Water Sprinkler System (optional)
- External Fire Hose Connection Port

Technical Specification

MODEL	ESD1267-05P3421
Electrical Parameters	
Cell Type	LFP-300Ah
Rated Voltage of Single Cell	3.2Vdc
System Nominal Energy	3421kWh
System Rated Voltage	1267.2Vdc
System Voltage Range	990Vdc ~ 1445.4Vdc
System Rated Power	1710.5kW
Charge / Discharge Rate	≤ 0.5P @ 25℃
Components	
High Voltage Box	Integrated
Confluence Cabinet	Integrated
Monitoring System (HMI)	Integrated
Fire Suppression System	• Explosion-proof exhaust and ventilation system • Temperature/smoke/combustible gas detection system • **PACK-level submerged** fire extinguishing system • FK 5-1-12 automatic dry agent fire extinguishing system • Prefabricated water sprinkler system (optional)
Thermal Management System	• Integrated Liquid Cooler 40kW Cooling Capacity • Air-cooling for Container
EMS	Not Integrated
BMS	Integrated
Conditions	
Storage Temperature	-30℃~60℃
Working Ambient Temperature	-30℃ ~45℃(>45℃ Derating)
Working Relative Humidity	0% ~95%(Non-condensing)
Working Altitude	≤3000m
Other Parameters	
Ingress Protection	IP54
Communication Interface	CAN,RS-485, Ethernet
Communication Protocol	CAN, Modbus-TCP/IP, Modbus RTU, IEC104
Dimensions (W*D*H)	6058*2438*2896mm/238.5*96*114in (20ft Container)
Weight	37t
Standards & Certification	UL 9540A, UL 9540, UL 1973, UN 38.3, UN 3536, NFPA 855, NFPA 69, IEC 62477-1, IEC 61000-6-2, IEC 61000-6-4, IEC 62933-5-2, IEC 63056, IEC 62619, IEC 60730-1, GB/T 36276

5MWh+

Liquid Cooling Energy Storage System

High Energy Density

Single Container ≥5 MWh

Triple Protection

Multi-Layer Safety Architecture

Plug-and-Play

20-ft Standardized Container

Smart Cooling

≤3℃ Temperature Deviation

Built-In Safety

Cell-to-System Protection

Flexible Layout

Modular Deployment, Reduced Footprint

Technical Specification

MODEL	ESD1331-05P5015
Electrical Parameters	
Cell Capacity	LFP-314Ah
Nominal Energy	5015.9kWh
Nominal Voltage	13312V
Recommended Voltage Range	1164.8V-1497.6V
Maximum Charge/Discharge Rate	0.5P@25C
Maximum Charging Power	2507.9kW(0.5P)
Environmental Parameters	
Storage Temperature	-30℃ - 60℃
Operating Temperature	-30℃ - 55℃
Operating Humidity	95%
Altitude	≤3000m
Structural Parameters	
Ingress Protection Rating (IP Rating)	IP55
Cooling Method	Liquid-Cooling
Communication Method	CAN,RS485,Ethernet
Communication Protocol	CAN, Modbus-TCP/IP, Modbus RTU,IECI04
Fire Suppression System	·Explosion-proof Exhaust and Ventilation System ·Temperature/Smoke/Combustible Gas Detection System ·**PACK-level submerged** Fire Extinguishing System ·Aerosol Fire Extinauishing System ·Prefabricated Water Sprinkler System (Optional)
China Compliance	GB/T36276
US Compliance	UL1642,UL1973,UL9540,UL9540A,NFPA 69,NFPA 855,NFPA68*
European Standard	IEC 62619,IEC 62477-,IEC 61000-6-2,EC 61000-6-4,1EC 62933-5-2, IEC 60068-2, IEC 62620,IEC 61427-1,IEC 61427-2,1EC 60730,IEC 63056,EU 2023-1542
shipping Compliance	UN38.3,UN3536
pimensions (w*D*H)	6058*2438*2896mm
Weight	≈44t

*option upon request

125kW 261kWh

Liquid-cooling Energy Storage Cabinet

Integrated PV-ESS
Highly Modularized Design

Industrial-Grade Protection
Liquid-Cooled Thermal Management, -20~55℃/IP54

High-Voltage Capacity
168A Fast Charge

Flexible Scalability
Rapid Capacity Expansion, 99% Efficiency

Zero-Interruption Grid Transition
<30ms, Off-Grid Capable

Intelligent Power Control
125kW Off-grid, ±0.99 Adjustable PF

Technical Specification

MODEL	G125261
Battery Parameters	
Battery Type	LFP
Nominal Voltage	832V
Voltage Range	741~932V
Nominal Capacity	314Ah
Nominal Energy	261.2kWh
Max Charge/Discharge Current	168A
AC Grid-Connection Parameters	
Voltage Configuration	Three-Phase Four-Wire System
AC Voltage Range	400Vac（340Vac~440Vac）
Nominal Current	181A
Maximum Current	200A
Nominal Frequency	50Hz/60Hz
Power Factor	>0.99 (at half load and above), adjustable range: 1 (leading) to 1 (lagging).
Charge/Discharge Switching Time	<30ms
Off-grid Parameters①	
AC Voltage Harmonics	≤3% (linear load)
Output Frequency	50Hz/60Hz
Rated Output Power	125kW
Maximum Apparent Power	137.5kVA
PV Parameters (Optional)	
Maximum Input Voltage	950V
Operating Voltage Range	500~950V
Rated Power	125kW
Maximum Current	110/110
Number of Input Channels	2
Maximum Efficiency	99%
General Parameters	
Weight	≈2600kg
Altitude	< 2000m
Protection Level (IP Rating)	IP54
Corrosion Protection Level	C4
Dimensions(W*D*H)	1080x1665x2444 mm
Operating Temperature Range	-20~55℃
Operating Humidity Range	RH ≤ 95% (non-condensing)
Temperature Control Method	Battery: Liquid Cooling　Inverter: Air Cooling
Fire Protection Device	Thermal Aerosol

①: The off-grid function requires the use of STS accessories.

Low Voltage
Single Phase Inverter

HYSL 3000-6000

Low Voltage Single Phase Hybrid Inverter

PV RATIO UP TO
2.0

MONITORING VIA CLOUD

ENVIRONMENTAL ADAPTABILITY

SAFE AND EASY TO INSTALL

Technical Specification

MODEL	HYSL-3000	HYSL-3680	HYSL-4000	HYSL-5000	HYSL-6000
BATTERY INPUT					
Battery type	Lithum/Lead-Acid				
Input voltage range (V)	40-60				
Max.charging/discharging current (A)	70		80	120	
Max.Charging/Discharging voltage (V)	<=60 (Adjustable)				
Charging strategy for Li-ion battery	Self Adaption to BMS				
PV INPUT					
Max. pv power (W)	6000	7360	8000	10000	12000
Max.Input voltage (V)	600				
Start Up Voltage (V)	70				
MPP Voltage Range (V)	80-550				
Rated Input Voltage (V)	360				
Max. Input Current (A)	16/16				
Max. Short Circuit Current (A)	20/20				
No. of MPPTs/No. Strings Per MPPT	2/1				
AC OUTPUT					
Rated power (W)	3000	3680	4000	5000	6000
Max. apparent power (VA)	3300	4048	4400	5500	6600
Rated grid frequency (Hz)	50/60	50/60	50/60	50/60	50/60
Max. output current (A)	14.3	17.6	19.1	23.9	28.7
Power factor	0.8ind-0.8cap				
THDi @ rated power	< 3%				
Grid connection	Single Phase				
AC OUTPUT(BACK-UP)					
Rated power (W)	3000	3680	4000	5000	6000
Rated output voltage (V)	230				
Rated output frequency (Hz)	50/60				
Peak output apparent power (VA)	2 times of rated power for 3000-4000W@10s;1.5 times for 5000-6000W@10s				
Rated output current (A)	13.0	16.0	17.4	21.7	26.1
Switch time (ms)	< 10				
GENERAL DATA					
Dimensions(W*H*D)(mm)	455*365*182				
Weight (kg)	18.4				
User Interface	LCD&LED				
PV connection type	MC4				
AC connection type	OT Terminal + Shell				
Battery connection type	Plug-in				
Cooling	Natural Cooling				
Communication with meter	RS485				
Operating ambient temp (C)	-30 ~ +60				
CT connection type	Plug-in Connector				
Max.operating altitude (m)	3000 (>3000 Derating)				
protection class	IP65				
Night consumption (W)	< 5				
Max. parallel number	9				
Warranty	5 (10)years				
STANDARD COMPLIANCE					
Safety	IEC 61000-6-1/-3, EN 62920, EN 62109-1/-2, SUD TUV MARK, EN 55011				
Grid connection standards	EN 50549-1&-10/CEI 0-21				

High Voltage
Wall-Mounted Inverter

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

Technical Specification

MODEL	HYSH-3000	HYSH-3680	HYSH-5000	HYSH-6000
BATTERY INPUT				
Battery type	Li-ion			
Input voltage range (V)	80-480			
Max. charging/Discharging current (A)	25/25			
Charging strategy for Li-ion battery	Self-adaption to BMS			
Start up voltage (V)	70			
PV INPUT				
Max. pv power (W)	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)	15.0	16.0	23.0	27.3
Max. current from grid (A)	30.0	32.0	36.0	40.0
Grid connection	Three Phase			
Power factor	0.8ind - 0.8cap			
THDi @ rated power	<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			
Rated output frequency (Hz)	50/60			
Max. output current (A)	15.0	16.0	23.0	27.3
Auto switch time (ms)	< 10			
GENERAL DATA				
Dimensions(W*H*D)(mm)	425*351*160			
Weight (kg)	14.2			
User Interface	LCD&LED			
DC connection type	MC4			
AC connection type	Plug-in Connector			
Battery connection type	SUNCLIX			
Cooling	Natural Cooling			
Communication with cloud	RS485 / Wi-Fi / 4G / LAN (optional)			
Communication with BMS	CAN/RS485			
Communication with meter	RS485			
Operating ambient temp (℃)	-25 ~ +60			
CT connection type	Plug-in Connector			
Max. operating altitude (m)	3000 (>3000 Derating)			
Protection class	IP65			
Night consumption (W)	< 5			
STANDARD COMPLIANCE				
Safety	IEC 61000-6-1/-3, EN 62920, EN 62109-1/-2, SUD TUV MARK			
Grid connection standards	EN 50549-1&-10, NTS Type A, RD 647/413/1699, UNE 217002			

High Voltage
Wall-Mounted Inverter

HYTH 5000-15000

High Voltage Three Phase Hybrid Inverter

Peak Efficiency
98.5%

Max.DC Overload
50%

Aluminum Alloy Die Casting

MES+FCT+CRM Infrastructure

Easy to Install and Service

Energy Management

Technical Specification

MODEL	HYTH-5000	HYTH-6000	HYTH-8000	HYTH-10000	HYTH-12000	HYTH-15000
BATTERY INPUT						
Battery type	Li-ion					
Battery voltage range (V)	160-800					
Max. charging/Discharging current / A	25/25					
Charging strategy for Li-Ion battery	Self-adaption to BMS					
PV INPUT						
Max. PV power (W)	7500	9000	12000	15000	18000	18000
Max.Input voltage (V)	1000					
Mppt voltage range (V)	150-850					
Start up voltage (V)	145					
Rated Input voltage (V)	620					
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)	5000	6000	8000	10000	12000	15000
Max. apparent power (VA)	5500	6600	8800	11000	13200	16500
Max. output current (A)	8.5	10.0	13.5	16.0	20.0	24.0
Rated grid frequency (Hz)	50/60					
Power factor	0.8ind-0.8cap					
THDi @ rated power	< 3%					
Grid connection	Three Phase					
AC OUTPUT(BACK-UP)						
Rated power (W)	5000	6000	8000	10000	12000	12000
Peak output apparent power (VA)	10000	12000	15000			
Max. output current (A)	8.5	10.0	13.5	16.0	20.0	20.0
Rated output voltage (V)	380/400					
Rated output frequency (Hz)	50/60					
Switch time (ms)	< 10					
GENERAL DATA						
Dimensions(W*H*D)(mm)	425*346*200					
Weight (kg)	21.1					23
User Interface	LCD&LED					
PV connection Type	MC4					
AC connection Type	Plug-in Connector					
Battery connection Type	SUNCLIX					
Communication with cloud	RS485 / Wi-Fi / 4G / LAN (optional)					
Operating ambient temp (℃)	-25 ~ +60					
CT connection type	Plug-in Connector					
Max.operating altitude (m)	2000 (>2000 Derating)					
Protection class	IP65					
Night consumption (W)	< 13					
STANDARD COMPLIANCE						
Safety	IEC 61000-6-1/-2/-3/-4, EN/IEC 62109-1/-2, TUV SUD MARK					
Grid connection standards	EN 50549-1, VDE-AR-N 4105, CEI 0-21					

Low Voltage
Wall-Mounted Battery

LFPApollo 5000

Low Voltage Energy Storage Battery

Scalable Flexibility

Modular 5.22kWh design, scalable up to 16 units

Installation & Maintenance

Wall-mounted & ground-mounted design withone-touch power on/off. Optimizedprecharge algorithm.

Exceptional Compatibility

Supports CAN and RS485 communication protocols, compatible with most inverters.

Multi-Layer Protection

Triple protection (cell, pack, system); 3-level overcurrent protection.

Environmental Adaptability

Ultra-wide temp range, self-heating.Aerosol Fire Suppression System

High-efficiency Long-Life

6,000+ cycles;90% Depth of Discharge 15 year lifespan. ±3% SOC accuracy.

Technical Specification

MODEL	LFPApollo-5000			
PERFORMANCE SPECIFICATION				
Battery type	LiFePO4			
Total energy capacity (kWh)	5.22			
Battery modules voltage range (Single phase system) (V)	43.2-58			
Max.charging current (A)	70			
Max.discharging current (A)	100			
GENERAL DATA				
Weight (kg)	48.4			
Dimensions(L / W / D) (mm)	535*523*186			
Storage temp (℃)	-20 ~ +55			
Working temp charge (℃)	Charging: 0~+55, Discharging: -20~+55			
Max. operating altitude (m)	3000			
Cooling	Natural cooling			
Protection class	IP65			
Installation	Wall-mounted/Floor stand			
DOD	90%			
Cycle life	≥6000 @25℃ 0.5C			
PARALLEL SPECIFICATION				
Parallel number	1	2	3	4
Total energy capacity (kWh)	5.22	10.44	15.66	20.88
Nominal charging power (kW)	3.58	5.12	7.68	10.24
Nominal discharging power (kW)	5.12	7.16	10.75	14.33
Total weight (kg)	48.5	97	146	194
STANDARD COMPLIANCE				
Certificates	UN38.3, IEC 62619, IEC 60730, IEC 61000-6-1/-6-3, RoHS, REACH			

LFPWall-5000

Low Voltage Energy Storage Battery

Scalable Flexibility

Modular 5.12kWh design, expandable from 5kWh to 40kWh.

Installation & Maintenance

Wall-mounted design with one-touch power on/off. Optimized precharge algorithm.

Exceptional Compatibility

Supports CAN and RS485 communication protocols, compatible with most inverters.

Multi-Layer Protection

Triple protection (cell, pack, system); 3-level overcurrent protection.

Environmental Adaptability

Ultra-wide temp range, self-heating. IP65 & RoHS certified.Aerosol Fire Suppression System

High-efficiency Long-Life

6,000+ cycles;90% Depth of Discharge 15-year lifespan. ±3% SOC accuracy.

Technical Specification

MODEL	LFPWall-5000			
PERFORMANCE SPECIFICATION				
Battery type	LiFePO4			
Total energy capacity (kWh)	5.12			
Battery modules voltage range (Single phase system) (V)	45-57			
Max.charging current (A)	45			
Max.discharging current (A)	75			
GENERAL DATA				
Weight (kg)	49.5			
Dimensions(L / W / D) (mm)	567*467*182			
Storage temp (℃)	-20 ~ +35			
Working temp charge (℃)	Charging: 0~+55, Discharging: -10~+55			
Max. operating altitude (m)	2000			
Cooling	Natural cooling			
Protection class	IP65			
Installation	Wall-mounted/Floor stand			
DOD	90%			
Cycle life	≥6000 @25℃ 0.5C			
PARALLEL SPECIFICATION				
Parallel number	1	2	3	4
Total energy capacity (kWh)	5	10	15	20
Nominal charging power (kW)	2.30	4.61	6.91	9.22
Nominal discharging power (kW)	3.84	7.68	11.52	15.36
Total weight (kg)	48.5	97	146	194
STANDARD COMPLIANCE				
Certificates	UN38.3, IEC 62619, IEC 60730, IEC 61000-6-1/-6-3, RoHS, REACH, CEI 021			

LFPWall-10K-V2

Low Voltage Energy Storage Battery

Expansion Flexibility

10.44kWh modular design supporting parallel connection up to 8 batteries.

Safe & Reliable

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

Perfect Compatibility

Supports CAN and RS485 communication protocols, compatible with most inverters.

Easy Installation

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

Environmental Adaptability

Ultra-wide temp range, self-heating. IP65 & RoHS certified.Aerosol Fire Suppression System

High-efficiency Long-Life

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

Technical Specification

MODEL	LFPWall-10K-V2			
PERFORMANCE SPECIFICATION				
Battery type	LiFePO4			
Total energy capacity (kWh)	10.44			
Battery modules voltage range (Single phase system) (V)	45-57.6			
Max.charging current (A)	90			
Max.discharging current (A)	140			
GENERAL DATA				
Weight (kg)	96			
Dimensions(L / W / D) (mm)	560*805*197			
Storage temp(℃)	-20 ~ +35			
Working temp charge(℃)	Charge: 0 ~ +55 Discharge: -10 ~ +55			
Max. operating altitude (m)	2000			
Cooling	Natural cooling			
Protection class	IP65			
Installation	Wall-mounted/Floor stand			
DOD	90%			
Cycle life	≥6000 @25℃ 0.5C			
PARALLEL SPECIFICATION				
Parallel number	1	2	3	4
Total energy capacity (kWh)	10	20	30	40
Nominal charging power (kW)	4.61	9.22	13.82	18.43
Nominal discharging power (kW)	7.17	14.34	21.50	28.67
Total weight (kg)	96	192	288	384
STANDARD COMPLIANCE				
Certificates	EN/IEC 61000-6-1/-3, IEC 62619, IEC 61000, UN38.3, RoHS, REACH, CEI 021			

Roller-10K

Low-Voltage Roller Battery

High Energy Efficiency

With a large capacity of 205Ah and a 90% (DOD), it offers efficient discharge.

Intelligent Compatibility

Modular integration design, supporting parallel connection of 2 to 16 battery modules.

Convenience

360° rotatable, lightweight, easy installation and mobility.

Safe & Reliable

LFP battery with integrated BMS and IP65 protection.

Environmental Adaptability

extreme temperatures, -20°C to 55°C, humidity levels, 5% to 95% RH.

Long Lifespan

Long lifespan of ≥6000 cycles at 25°C with 0.5C discharge rate, reducing replacement costs.

Technical Specification

MODEL	Roller-10K
GENERAL DATA	
Nominal energy (kWh)	10.49
Nominal capacity (Ah)	205
Nominal voltage (V)	51.2
Operating voltage (V)	40-58.4
Max. charging current (A)	150
Max. discharging current (A)	200
DOD	90%
System Configuration	1P16S
Installation	Mobile
Battery type	LiFePO4
Communication	CAN/RS485
Cycle life	≥6000 @25℃, 0.5C
Working temp range (℃)	Charge: 0 ~ +55 Discharge: -20 ~ +55
Storage temp (℃)	-20 ~ +45
Relative humidity	5~95%RH
Max.operating altitude (m)	≤3000
Protection grade	IP65
Cooling	Natural Cooling
Bluetooth communication	Optional
Net weight (kg)	85
Product dimension (W*H*D)(mm)	741*480*251
STANDARD COMPLIANCE	
Certificates	UN38.3, RoHS, EN/IEC 61000-6-1&-3

Roller-16K

Low-Voltage Roller Battery

High Energy Efficiency

With a large capacity of 314Ah and a 90% (DOD), it offers efficient discharge.

Intelligent Compatibility

Modular integration design, supporting parallel connection of 2 to 16 battery modules.

Convenience

360° rotatable, lightweight, easy installation and mobility.

Safe & Reliable

LFP battery with integrated BMS and IP65 protection.

Environmental Adaptability

Extreme temperatures, -20°C to 55°C, humidity levels, 5% to 95% RH.

Long Lifespan

Long lifespan of ≥6000 cycles at 25°C with 0.5C discharge rate, reducing replacement costs.

Technical Specification

MODEL	Roller-16K
GENERAL DATA	
Rated capacity	314Ah
Nominal voltage	51.2V
Recommended charge current	150A
Maximum charge current	180A
Recommended discharge current	150A
Maximum discharge current	180A
Maximum charge voltage	58V
DOD	90%
Charge Temperature (°C)	0~55
Discharge Temperature (°C)	-20~55
Storage Temperature (°C)	-20~55
Relative Humidity (%RH)	5~95
Cycle Life	≥6000 (25°C, 0.5C)
Operating Altitude (m)	≤3000
Installation Method	Mobile
Protection Grade	IP65
Cooling Method	Natural cooling
Weight (kg)	110 (±1)
Dimensions (H×D×W, mm)	880×430×250(±1)
Number of Modules	2
Communication Method	CAN2.0B + RS485
STANDARD COMPLIANCE	
Certificates	UN38.3 EN/IEC 61000-6-1&-3,IEC 62619+TUV mark

LFPR-51B100L-V1

5kWh / 10kWh / 15kWh / 20kWh...
Low Voltage Rack-mounted Battery

Perfect Compatibility

Compatible with both residential single & three phase inverters.

Expansion Flexibility

5.12kWh modular design, support battery in parallel.

Easy Installation

Rack-mounted installation,easy to grab.

Safe & Reliable

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

Environmental Adaptability

Wider temperature range: -20℃~+55℃.

Long Lifespan

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

Technical Specification

MODEL	LFPR-51B100L-V1
GENERAL DATA	
Rated capacity (Ah)	100
Rated energy (kWh)	5.12
Rated voltage (V)	51.2
Charge voltage (V)	57.6
Discharge voltage range (V)	43.2-57.6
Max.charging current (A)	50
Max.discharging current (A)	70
Battery type	LiFePO4
Max.output power (W)	3584
DOD	90%
Modules connection	1-8 in parallel
Communication	CAN.RS485
Cycle life	≥6000@25℃, 0.5C
Storage temp (℃)	-20 ~ +35
Working temp range (℃)	Charge: 0 ~ +50 Discharge: -10 ~ +55
Net weight	43.8kg/96.6lb
Gross weight	46.1kg/101.6lb
Product dimension (W*H*D)(mm)	520*150*474
Package dimension (W*H*D)(mm)	600*255*525
STANDARD COMPLIANCE	
Certificates	IEC 62619, EN/IEC 61000-6-1&-3, UN38.3, RoHS, REACH

GroundHV-2500

7.5kWh / 10kWh / 12.5kWh / 15kWh / 17.5kWh / 20kWh
High-Voltage Stackable Battery

Smart O&M

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

Expansion Flexibility

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

Easy Installation

24kg/52.9lb per battery box, easy to move and install. Plug connections between packs, wireless design.

Safe & Reliable

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

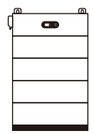
Environmental Adaptability

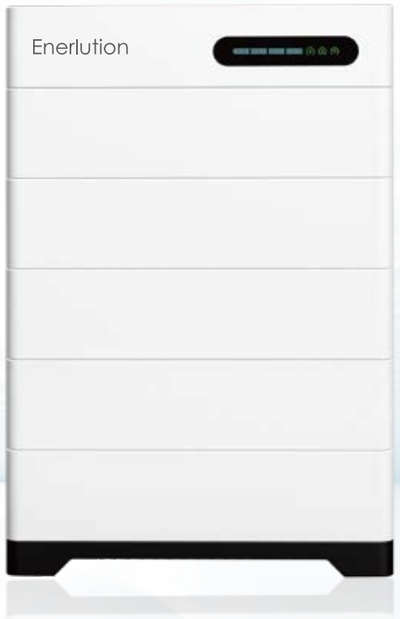
Wider temperature range: -20℃~+55℃. IP65 protection class.

Long Lifespan

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

Technical Specification

MODEL	GroundHV-10K	GroundHV-12.5K	GroundHV-15K	GroundHV-17.5K	GroundHV-20K
Stacking method					
PERFORMANCE SPECIFICATION					
Nominal voltage (V)	192	240	288	336	384
Connection	1P60S	1P75S	1P90S	1P105S	1P120S
Voltage working range (V)	153-213	191.2-266.2	230-319	267.7-372.7	306-426
Rated energy (kWh)	9.984	12.48	14.976	17.472	19.968
Weight	~105kg/231lb	~129kg/284lb	~152.3kg/335lb	~176.2kg/388lb	~199.5kg/438lb
Dimensions (W*H*D)(mm)	606*900*220	606*1070*220	606*1240*220	606*1410*220	606*1580*220
GENERAL DATA					
Capacity (Ah)	52				
Max.discharge current (A)	35				
Charge current (A)	35				
Battery type	LiFePO4				
Installation	Floor stand				
Protection class	IP65				
Transportation SOC	30%				
Wi-Fi module	Optional				
Each pack	23.5kg/580*170*220mm				
PDU+base	14kg/606*220*220mm				
Working temp (℃)	Charge: 0 ~ +50 Discharge: -10 ~ +55				
Storage temp (℃)	-20 ~ +35				
PDU/pack package dimension(mm)	606*220*225				
STANDARD COMPLIANCE					
Certificates	IEC 62619, EN/IEC 61000-6-1&-6-3, UN38.3, UKCA, RoHS, REACH, CEI 0-21				



GH02-5324

15kWh / 21kWh / 26kWh / 31kWh / 37kWh / 42kWh
High-Voltage Stackable Battery

Smart O&M

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

Expansion Flexibility

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

Easy Installation

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

Safe & Reliable

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

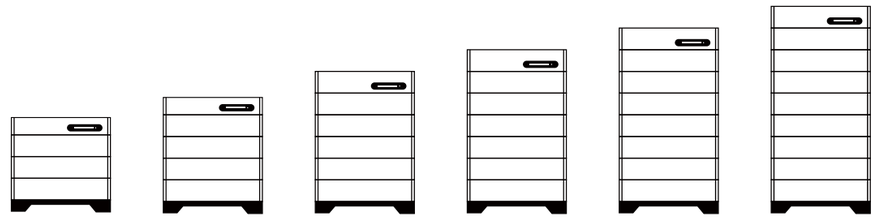
Environmental Adaptability

Wider temperature range: -20℃~+55℃. Adaptable for Various Applications..

Long Lifespan

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

Technical Specification

MODEL	GH02-15K	GH02-21K	GH02-26K	GH02-31K	GH02-37K	GH02-42K
Stacking method						
PERFORMANCE SPECIFICATION						
Nominal voltage (V)	153.6	204.8	256	307.2	358.4	409.6
Connection	2P48S	2P64S	2P80S	2P96S	2P112S	2P128S
Voltage working range (V)	114.7-159.7	153-213	191.2-266.2	230-319	267.7-372.7	306-426
Rated energy (kWh)	15.974	21.299	26.624	31.949	37.274	42.598
Dimensions (W*H*D) (mm)	670*645*396	670*800*396	670*955*396	670*1110*396	970*1265*396	670*1420*396
GENERAL DATA						
Capacity (Ah)	104					
Max.discharge current（A）	50					
Charge current（A）	50					
Battery type	LiFePO4					
Installation	Floor stand					
Protection class	IP65					
Cycle life	>6000 @ 25℃, 0.5C, 90%DOD					
Transportation SOC	30%					
Working temp（℃）	Charge: 0 ~ +50　Discharge: -20 ~ +55					
Storage temp（℃）	-20 ~ +35					
Communication	CAN/RS485					
STANDARD COMPLIANCE						
Certificates	IEC 62619, EN/IEC 61000-6-1&-6-3, UN38.3, RoHS, REACH, CEI 0-21					

HRH-5200

20.88kWh~62.64kWh
High Voltage Rack-mounted Battery

Smart O&M

RS485/CAN communication compatiable with most brands inverters in the market.

Expansion Flexibility

5.22kWh modular design ,Scalable from 20.88kWh to 62.64kWh.

Easy Installation

Modular design for easy installation and operation.

Safe & Reliable

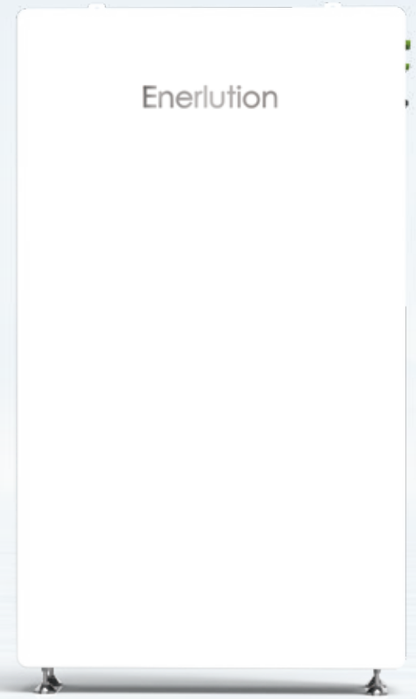
Equipped with a specially designed BMS,three-level overcurrent protection

Long Lifespan

More than 6000 cycles, (0.5C, @25℃ 90%DOD)

Technical Specification

MODEL	HRH-5200
CELL PARAMETERS	
Cell type	LiFePO4
Nominal voltage (V)	3.2
Nominal capacity (Ah)	102
Cycle life	≥6000 @25℃, 80%EOL)
BATTERY MODULE PARAMETERS	
Connection	1P16S
Rated capacity (Ah)	102
Rated energy (kWh)	5.2
Nominal voltage (V)	51.2
Operating voltage range (V)	45.6-56.8
Max discharge current (A)	100
GENERAL PARAMETERS	
Series number	4-12 pcs
Max expansion size (W*H*D) (mm)	500*2190*560
Working temp (℃)	0 ~ +50
Max.operating altitude（m）	<2000
Fire protection system	Passive(high-temperature triggered)
Fire extinguishing agent	Thermal aerosol
Local display	Yes
STANDARD COMPLIANCE	
Certificates	IEC 62619, EN/IEC 61000-6-1&-2&-3&-4， EN 62477-1, UN38.3, RoHS, REACH



Enerwall R6

16.8kWh Low Voltage All-in-one system

Extreme Heat Endurance

Stable 60℃ Operation

Grid Adaptability

Wide voltage/frequency auto-adaptation

Ultra-Slim Design

Space-saving, wall-mounted or floor-standing

Dustproof & Cooling

Bionic heat dissipation, efficient dust resistance

Localized Service

Easy installation, remote O&M

Safety & Longevity

Military-grade LFP, ≥6000 cycles (25℃, 0.5C)

Technical Specification

MODEL	Enerwall R6	Enerwall R6 Pro
PV Input		
Maximum Input Power	9000W	9000W
Maximum Input Voltage	500V	500V
Voltage Range	60-450V	60-450V
Maximum Input Current	27A	27A
Number of Input Strings	2	2
AC Input		
Rated Input Voltage	230VAC	230VAC
Voltage Range	90-280V	90-280V
Frequency Range	40-70Hz	40-70Hz
Input Power Factor	≥0.99	≥0.99
Maximum Input Current	26A	26A
AC Output		
Output Power	6kW	6kW
Output Voltage	208/220/230/240VAC	208/220/230/240VAC
Voltage Accuracy	≤±5%	≤±5%
Maximum Output Current	28A	28A
Output Harmonic Distortion	≤3%	≤3%
Response Time	10ms	10ms
Number of Output Strings	2	2
Other Parameters		
Operating Temperature	-10℃~60℃	-10℃~60℃
Operating Humidity	5%~95%	5%~95%
Storage Temperature	-15~35℃	-15~35℃
Altitude	1000m	1000m
Display	LED+LCD	LED+LCD
Protection Level	IP65	IP65
Communication Method	WiFi/RS232	WiFi/RS232
Dimensions	1190*700*150（mm）	1190*700*150（mm）
Weight	125kg	125kg
Battery Parameters		
Battery Type	LFP	LFP
Rated Energy	16.8kWh	16.8kWh
Rated Capacity	329Ah	329Ah
Rated Voltage	51.2V	51.2V
Operating Voltage Range	43.2~58.4V	43.2~58.4V
Maximum Charging Current	120A	120A
Maximum Discharging Current	120A	120A
Cycle Life	≥6000 (25℃，0.5C)	≥6000 (25℃，0.5C)
Heating Function	No	Yes

Low Voltage
All-in-one system

HY5KS5123

5.12kWh / 10.24kWh / 15.36kWh
Low Voltage Single Phase Off-grid All-in-one

Built-in 80A
Solar Charger

DUAL
Dual
AC Output

WiFi
Monitoring

Wide MPPT
Range 120-500V

Lithium Battery
Activation

Feed-in
to Grid

Technical Specification

MODEL	HY5KS5121	HY5KS5122	HY5KS5123
	1 Battery Module	2 Battery Module	3 Battery Module
PV INPUT			
Rated voltage (V)		350-360	
MPPT voltage operation range (V)		120-500	
Max Input power (W)		6000	
Max Input voltage (V)		500	
Max Input current (A)		18	
AC INPUT & OUTPUT (GRID)			
Max AC Input current (A)		40	
Rated output power (W)		5000	
Max output power (VA)		5000	
Rated output current (A)		21.7	
Max output current (A)		23.9	
Rated output voltage (V)		220/230/240	
THDI		< 3% (Nominal Power)	
EMERGENCY OUTPUT			
Max output power (VA)		5000	
Peak output power (VA)		10000	
Max output current (A)		16-26.1	
Rated output voltage (V)		220/230/240 (+/-0.2%)	
Output frequency (Hz)		50/60 (+/-0.2%)	
THDU		< 2%	
Transfer time (ms)		< 10	
EFFICIENCY			
Max battery discharge efficiency		91%	
Max charge efficiency (PV to battery)@ full load		98.50%	
SYSTEM PARAMETER			
Dimensions(W*D*H) (mm)	674*170*775	674*170*1135	674*170*1535
Work temperature Rang (℃)		-20 ~ +60 (Derating @45 ℃)	
Storage temperature (℃)		-20 ~ +45	
Storage RH (%)		5% ~ 90% (non-condensing)	
Altitude(m)		<2000	
Protection class		IP21	
Dispaly		LCD/APP	
Cooling		Natural cooling	
Inverter topology		Non-isolated	
Installation		Floor-mount	
BATTERY PACK SPECIFICATION			
Cell type		LFP	
Cell configuration		16S1P	
Nominal voltage (V)		51.2	
Nominal capacity(Ah)		102	
Nominal energy/ module (Wh)		5222	
System energy (Wh)	5222 (1 Module)	10444 (2 Module)	15666 (3 Module)
Charge voltage (V)		58	
Max charging current (A)		100	
Max discharging current (A)		100	
Charge temp range (℃)		0 ~ 45	
Discharge temp range (℃)		-20 ~ 60	
Storage temp range (℃)		-20 ~ 45	
Humidity (%)		5 ~ 95%RH	
Cooling		Natural cooling	
Cycle life (time)		≥6000 (80% DOD, Remaining 80%)	
Communication		CAN & RS485	
Weight (kg)	67	117	167
STANDARD COMPLIANCE			
Standard		EN/IEC 61000-6-1/-3, UN38.3, RoHS	

ADVANCE 300/500/1000

PORTABLE POWER STATION

Versatile Power Supply

Covers a wide range of power needs.

Flexible Charging

Supports three or more charging methods.

Rugged & Durable

Shockproof and drop-resistant design.

Portable Design

Lightweight yet high-capacity.

Comprehensive Outputs

Multiple ports for various devices.

Smart Features

Wireless charging and eco mode.

Technical Specification

MODEL	ADVANCE 300	ADVANCE 500	ADVANCE 1000
GENERAL DATA			
Capacity	231Wh (14.8V 15.6Ah)	346Wh (22.2V 17.4Ah)	808Wh (22.2V 40.6Ah)
Recharging Way Input	AC Adapter: 18-24V 36W Max Solar Panel: 12-24V 48W Max	AC Adapter: 12-28V 100W Max Solar Panel: 12-28V 100W Max	AC Adapter: 12-28V 150W Max Solar Panel: 12-28V 120W Max
AC Outlet	1x Rated 300W, surge 400W	1x Rated 500W, surge 1000W	2x Rated 1000W, surge 2000W
DC Output	1x Cigarette Lighter Port 12-16.8V 8A	1x Cigarette Lighter Port 12V 10A	1x Cigarette Lighter Port 12V 10A
USB Output	1x USB-A QC 3.0 18W 1x Type-C 3.0 45W / 100W	3x USB-QC 3.0 Total 54W Max 1x Type-C 60W Max	3x USB-QC 3.0 Total 54W Max 1x Type-C 3.0 60W Max
Additional Functions	1x 1W Flashlight (SOS mode)	1x 10w Wireless Charger /1x 1W LED Light / 1x 1W Flashlight (SOS mode)	1x 10w Wireless Charger /1x 1W LED Light / 1x 1W Flashlight (SOS mode)
Product Size	L 192 x W 142 x H 148mm	L 230 x W 168 x H 178mm	L 290 x W 201 x H 200mm
Weight (Net/Gross)	2.8kg (6.17lbs) / 3.5kg (7.72lbs)	4.3kg (9.48lbs) / 5.2kg (11.46lbs)	8.5kg (18.7lbs) / 9.8kg (21.6lbs)

MASTER1000/1800/2200

PORTABLE POWER STATION

Double Runtime

Twice the power for all-night use

Fast Recharge

Full power in just 1.5 hours

Instant Backup

10ms transfer with no downtime

High Capacity

Up to 808-1944Wh for full-day use

Multi-Device Ready

AC/DC/USB for all key devices

Outdoor Durable

Weather-ready and reliable outdoors

Technical Specification

MODEL	MASTER 1000	MASTER 1800	MASTER 2200
GENERAL DATA			
Capacity	808Wh (22.2V ,36.4Ah)	1799Wh (44.4V 40.5Ah)	1944Wh (43.2V 45Ah)
Recharging Way Input	AC : 600W / Solar Panel: 12-28V, 150W Car Port: 12V, 60W	AC : 800W / Solar Panel: 12-60V, 800W Car Port: 12V, 80W	AC: 1000W / Solar Panel: 12-60V, 800W / Car Port: 12V, 80W
AC Outlet	2x Rated 1000W, Surge 2000W	3x Rated 1800W, Surge 3600W	3x Rated 2200W, Surge 4400W
DC Output	1x Cigarette Lighter Port 12V 10A	2x DC5525,1x Cigarette Lighter Port, 12V 10A, 120W Max	2x DC5525, 1x Cigarette Lighter Port, 12V 10A, 120W Max
USB Output	USB-A: 3x QC3.0, 18W each/ Type-C: 1x PD3.0, 60W	USB-A: 2x QC3.0, 18W each/ Type-C: 2x PD3.0, 60W each	USB-A: 2x QC3.0, 18W each / Type-C: 2x PD3.0, 60W each
Led Light (SOS mode)	1x 10W Wireless Charger /1x 1W LED Light / 1x 1W Flashlight (SOS mode)	1x 10W Wireless Charger / 1x 1W LED Light	1x 10W Wireless Charger / 1x 1W LED Light
Product Dimension	L290 x W201 x H200mm	L 350 x W 265 x H 240mm	L 350 x W 265 x H 240mm
Weight (Gross)	8.2kg/18.07lbs	13.9kg/30.64lbs	15.2kg/33.5lbs

HYBES2000

2.048 kWh All-in-one
Low Voltage Balcony PV Battery

All-in-One Design

Compact structure for quick setup in tight spaces.

Smart Price Response

Auto-adjusts charging/discharging based on grid prices to cut costs.

Live Energy Tracking

Monitor solar, load, and battery status via app.

Energy Insights

Historical usage reports and carbon emission insights.

AI Optimization

Generates tailored energy-saving strategies.

Autonomous Operation

Self-optimizes energy flow using weather and usage data.

Technical Specification

MODEL	HYBES2000
BATTERY DATA	
Capacity (Wh)	2048
Rated voltage (V)	51.2 (2P16S)
Life cycle (Times)	>6000 (25°C)
Battery type	LiFePO4
DOD	90%
INPUT DATA (PV)	
Input power (W)	2*800
Input voltage (V)	12 ~ 60
Max. input current (single)(A)	20
Number of MPPT	2
OUTPUT DATA (AC)	
Rated output power (W)	800
Output voltage	220/230/240 VAC (Single-phase)
AC frequency range	47.5 Hz - 51 Hz
Total harmonic distortion	Typ.< 3%, Max.< 5%
Power factor (adjustable)	>0.99 default 0.9 leading...0.9 lagging
EFFICIENCY	
Max. output efficiency	96.5%
MPPT efficiency	99%
ENVIRONMENTAL AND MECHANICAL	
Communication	Wi-Fi & Bluetooth
Charging temp range (°C)	0 ~ +50
Discharging temp range (°C)	-20 ~ +55
Protection class	IP65
Cooling	Natural cooling
Dimensions (W*H*D)(mm)	450*350*190
Weight (kg)	27
REGULATORY	
Compliance	IEC/EN62109,IEC/EN62619,IEC/EN61000-3-2/-3,EN61000-6-1/-3, EN 300328,RoHS 2.0,UN38.3 VDE 4105/0124,NF EN50549-10,EN 50549-1/-10,OVE-directiveR25:2020-03 TOR Erzeuger Type A

PROJECT APPLICATIONS

Real Deployments. Real Performance. Real Value.

12.5MW/50MWh

7.75MW/15MWh

700kW/1.6MWh

700kW/1.6MWh

6.9MWh

5MW/10.7MWh

500kW/1.5MWh

400kW/920kWh

1.7MW/3.65MWh

2MW/4.6MWh

1.1MW/2.35MWh

400kW/920kWh

PROJECT APPLICATIONS

Real Deployments. Real Performance. Real Value.

25kW/75kWh

110kW/110kWh

15kW/30kWh

10kW/15kW

30kW/30kWh

10KW/20kWh

High-voltage Hybrid Inverter & Battery

10KW/20KWh

10kW/15kW

10kW/20kWh

High-voltage Inverter & Battery

10kW/17.5kWh