

Enerlution



RESIDENTIAL ENERGY STORAGE SYSTEM

Low-Voltage Wall-Mounted Energy Storage System

Enerlution Energy Technology Co., Ltd

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Low-Voltage
Wall-Mounted



HYSL 3-6KW

Single Phase Hybrid



PV Ratio Up to
2.0



Grid
Independence



Shadow Scan
Algorithm



Monitoring via **CLOUD**

HYSL MODEL

HYSL-3000

HYSL-3680

HYSL-4000

HYSL-5000

HYSL-6000

PV INPUT

Max. PV Power / W	HYSL-3000	6000	Max.Input Voltage / V	600	Max. Short Circuit Current / A	20/20
	HYSL-3680	7360	Start Up Voltage / V	70	No. of MPPTs/No. Strings Per MPPT	2/1
	HYSL-4000	8000	MPP Voltage Range / V	80~550		
	HYSL-5000	10000	Rated Input Voltage / V	360		
	HYSL-6000	12000	Max. Input Current / A	16/16		

BATTERY INPUT

Battery type	Lithum/Lead-Acid		Rated Battery Voltage [V]	48
Input voltage range[V]	40~60		Max.Charging/Discharging voltage [V]	<=60 (Adjustable)
Max.charging/discharging current[A]	HES-3000 HES-3680	70	Charging strategy for Li-ion battery	Self Adaption to BMS
	HES-4000	80	Charging strategy for lead-acid battery	3 Stages Curve
	HES-5000 HES-6000	120	Temperature sensor	Optional (for Lead-Acid)

AC OUTPUT

Rated Power / W	3000	3680	4000	5000	6000
Max. Apparent Power / VA	3300	4048	4400	5500	6600
Max. Apparent Power from Grid / VA	6600	8096	8800	10000	10000
Rated Grid Voltage / V	220/230/240	220/230/240	220/230/240	220/230/240	220/230/240
Rated Grid Frequency / Hz	50/60	50/60	50/60	50/60	50/60
Rated Output Current / A	13.0	16.0	17.4	21.7	26.1
Max. Output Current / A	14.3	17.6	19.1	23.9	28.7
Max. Current from Grid / A	28.7	35.2	38.3	40.0	40.0
Power Factor	0.8ind - 0.8cap	0.8ind - 0.8cap	0.8ind - 0.8cap	0.8ind - 0.8cap	0.8ind - 0.8cap
THDi @ Rated Power	<3%	<3%	<3%	<3%	<3%
Grid Connection	L-N-PE	L-N-PE	L-N-PE	L-N-PE	L-N-PE

AC OUTPUT (BACK-UP)

Rated Power / W	3000	3680	4000	5000	6000
Rated Output Voltage / V	230	230	230	230	230
Rated Output Frequency / Hz	50/60	50/60	50/60	50/60	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	<10	<10	<10	<10
THDV@ Rated Power	<2%	<2%	<2%	<2%	<2%

EFFICIENCY

MPPT Efficiency	99.90%	Max. Efficiency	98.00%	Charged Efficiency@PV-Battery	96.00%
Euro Efficiency		97.60%		Charged/Discharged Efficiency@Battery<->Grid/Load	95.00%

PROTECTION

Anti-Islanding Protection	Integrated	Output Over Circuit Protection	Integrated	Battery Reverse Protection	Integrated
PV String Input Reverse Polarity Protection	Integrated	Output Short Circuit Protection	Integrated	Battery Terminal Temp Protection	Integrated
Insulation Resistor Detection	Integrated	Over Voltage Protection	Integrated		
Residual Current Monitoring Unit	Integrated	Surge Protection	DC Type II, AC Type III		

GENERAL DATA

Dimensions (W*H*D) / mm	455*365*182	Communication with Meter		RS485	
Weight / kg	18.4	Operating Ambient Temperature / °C		-30 ~ +60	
User Interface	LCD&LED	Allowable Relative Humidity Range / %		0-100	
PV Connection Type	MC4	CT Connection Type		Plug-in Connector	
AC Connection Type	OT Terminal + Shell	Max. Operating Altitude / m		3000 (>3000 Derating)	
Battery Connection Type	Plug-in	Degree of Protection		IP65	
Communication with Cloud	RS485/Wi-Fi/4G/LAN (optional)	Climatic Category (IEC 60721-3-4)		4K4H	
Communication with BMS	CAN/RS485	Topology		Transformerless	
Cooling Method	Natural Cooling	Night Consumption / W	<5	Max. Parallel Number	9



■ Product Advantages

● Expansion Flexibility

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

● 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: -20°C ~ 55°C . IP65 protection class.

● Long Lifespan

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

PRODUCT SPECIFICATIONS

Power wall Battery	LFPWall-10k-V2	Unit
Performance Specification		
Battery type	LiFePO4	
Total Energy Capacity	10.44	kWh
Battery modules voltage range (Single phase system)	45-57.6	V
Max.Charging /discharging current	90/140	A
General Data		
Weight	96	kg
Dimensions(L / W / D)	586*805*197	mm
Storage Temperature(°C)	-20~+35	°C
Working Temperature Charge	Charge: 0~+55, Discharge: -10~+55	°C
Max. operating altitude	2000	m
Cooling	Natural convection	
System ingress protection rating	IP65	
Installation method	Wall-mounted/Floor standing	
Standard Compliance		
Standard	MSDS,UN38.3,IEC62619,IEC 60730,IEC61000,CEI 021	



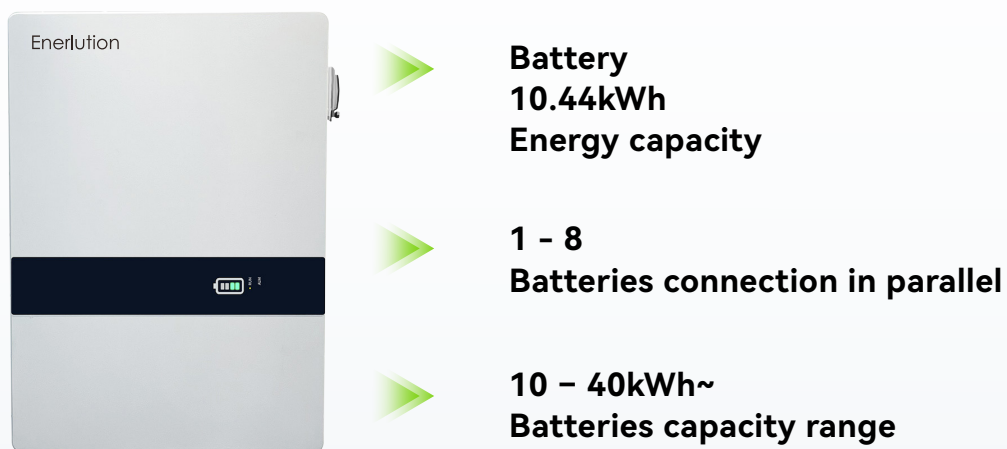
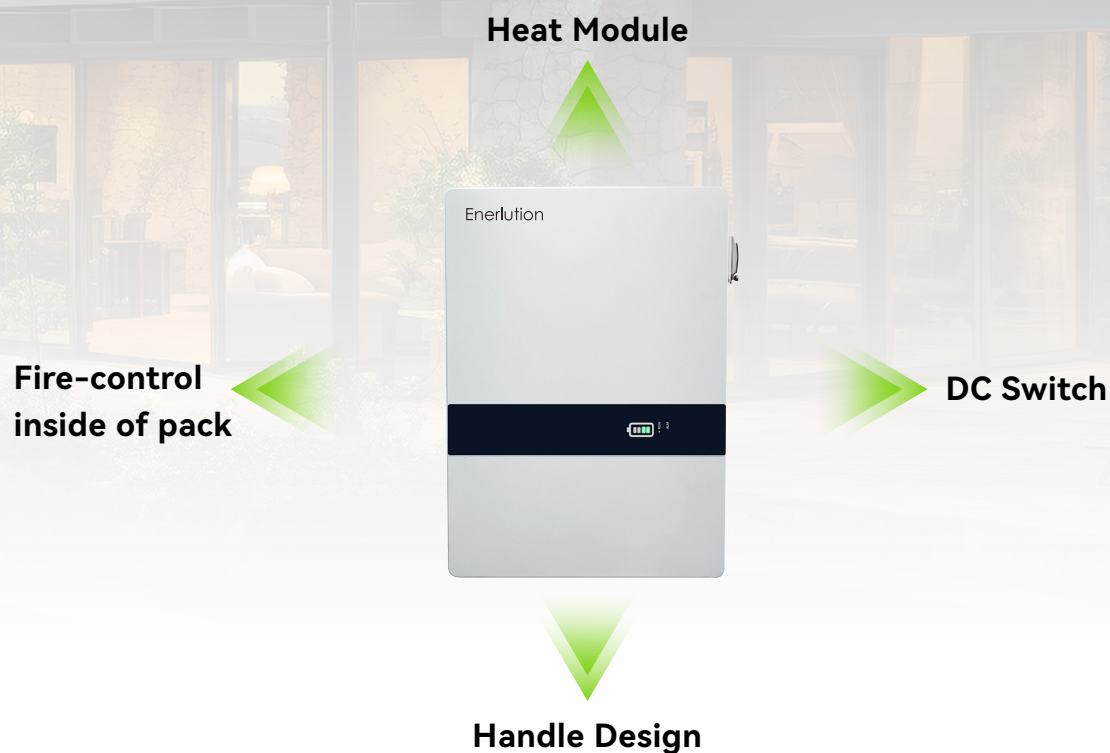
Number of battery in parallel**	2	3	4	5	6	7	8
Total energy capacity (kWh)	20	30	40	50	60	70	80
Max.Charging power (KW)	9.22	13.82	18.43	23.04	27.65	32.26	36.86
Max.discharging power (KW)	14.34	21.50	28.67	35.84	43.01	50.18	57.34
Total weight (kg)	192	288	384	480	576	672	768

• * Test conditions:95% depth of discharge, 0.5C rate charge & discharge averagely at 25°C

• ** The data in the table is based on the combination of LFPWall-5000 as an example, with a ground /wall-mounted installation.

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LFPWall-10k-V2 new version adopts A grade cells Highly integrated PACK, with special design of module, which achieves high-temp.resistance and mutil-protection of battery.