

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 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
EFFICIENCY					
MPPT Efficiency	99.90%				
Euro Efficiency	97.60%				
PV INPUT					
Max. PV Power / W	6000	7360	8000	10000	12000
Max.Input Voltage/V	600				
Input Voltage Range[V]	40-60				
Start Up Voltage /V	70				
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	660
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	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	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 Method	Natural Cooling				
Communication with Meter	RS485				
Operating Ambient Temperature /C	-30~+60				
CT Connection Type	Plug-in Connector				
Max.Operating Altitude /m	3000 (>3000 Derating)				
Degree of Protection	IP65				
Night Consumption/W	< 5				
Max. Parallel Number	9				
Standard Compliance					
Safety	IEC 61000, EN 55011, EN 62920, EN 62109-1/-2, SUD TUV MARK				
Grid Connection Standards	EN 50549-1&-10/CEI 0-21				



■ Product Advantages



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. IP67 & RoHS certified.



High-efficiency Long-Life

6,000+ cycles; 15-year lifespan. ±3% SOC accuracy; 300+ traceable data entries.

Technical Specification

Technical Specification		LFPWall-5000			
Performance Specification					
Battery type		LiFePO4			
Total energy capacity		5.12kWh			
Battery modules voltage range (Single phase system)		45-57V			
Max.charging current		45A			
Max.discharging current		75A			
General Data					
Weight		48.5kg			
Dimensions(L / W / D) (mm)		568*468*166			
Storage temperature(°C)		-20~+35			
Working temperature charge (°C)		Charging: 0~+55, Discharging: -20~+55			
Max. operating altitude (m)		2000			
Cooling		Natural convection			
protection		IP65			
Installation method		Wall-mounted/Floor standing			
Parallel Specification					
Number of battery in parallel**	1	2	3	4	
Total energy capacity (kWh)	5	10	15	20	
Max.charging power (KW)	2.30	4.61	6.91	9.22	
Max.discharging power (KW)	3.84	7.68	11.52	15.36	
Total weight (kg)	48.5	97	146	194	
Standard Compliance					
Standard	MSDS,UN38.3,IEC62619,IEC 60730,IEC61000,CEI 021				

• * 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.