



Share-Home

All-in-One Residential Energy Solution



Valuable

- Standardized BOM, save design time
- Quick installation, save labor cost
- Full process service, customer peace of mind



Reliable

- Integrated design, lower failure rate
- Unified standard, higher product quality
- Active power off protection and Arc-fault circuit interrupter, safer system
- CATL LFP Battery, stable and safe Module



Smart

- Real-time monitoring
- Intelligent control, intelligent detection, safe operation
- Remote upgrade, fault alarm



Simple

- Preassembled parts, simple connection
- Packing in system, convenient for warehouse sorting
- All-in-one energy storage system, single person can carry and install it

iShare Home Smart Solar Solution

System Configuration		5kW			
PV Module	4.05kW	4.86kW	5.67kW	6.48kW	
No. PV modules (pcs)	10	12	14	16	
Inverter	5kW*1set	5kW*1set	5kW*1set	5kW*1set	
Battery	5kWh~20kWh	5kWh~20kWh	5kWh~20kWh	5kWh~20kWh	
iBox	1 set	1 set	1 set	1 set	
Cable set	DC Cable: H1Z2Z2-K 1×6mm ² ; UL 11627 10AWG				
	AC Cable: NYY-3G4.0mm ²				
	Grounding Cable: NYY-1×6mm ² ; H07V-K 6mm ²				
	Connectors				
Mounting Structure set	Rail, hook kit/Hanger Bolt, rail connector, mid-clamp, end-clamp, earthing lug and other accessories				
Cloud & APP	1 set	1 set	1 set	1 set	

PV Modules	SL-108PA-405R
Maximum power (Pmax/W)	405W
Open-circuit voltage (Voc/V)	37.19
Short circuit current (Isc/A)	13.79
Peak power voltage (Vmp/V)	31.23
Peak power current (Imp/A)	12.90
Temperature coefficient of short circuit current (Isc)	+0.048%/°C
Temperature coefficient of open circuit voltage (Voc)	-0.270%/°C
Temperature coefficient of peak power (Pmax)	-0.350%/°C
Max. Efficiency	20.74%
L*W*H/Weight (kg)	1722×1134×30mm/21.5
Certificate	IEC 61215, IEC 61730; ISO 9001:2015: ISO Quality Management System Certification ISO 14001:2015: ISO Environmental management system certification ISO 45001:2018 Occupational Health and Safety Management; System Certification
Warranty	Warranty 25 years linear power and 12 years material and workmanship

All-in-one Energy Storage System

Inverter		SL- D5KTL- L100	
PV String Input			
Nominal Voltage (V)		400V	
MPPT Voltage Range (V)		80-560	
Start Voltage (V)		150	
Number of MPPT Tracker		2	
Strings Per MPPT Tracker		1	
Max. Input Current Per MPPT (A)		15	
Max. Short-circuit Current Per MPPT (A)		18	
Battery Side			
Battery Type		LFP (LiFePO ₄)	
Nominal Battery Voltage (V)		48	
Charging Voltage Range (V)		40-60	
Max. Charging Current (A)		100	
Max. Discharging Current (A)		100	
Battery Capacity (Ah)		100-400	
Charging Strategy for Li-ion Battery		Depend on the BMS	
AC Output (Backup)		AC Output (Grid)	
Max. Output Apparent Power (kVA)	5	Nominal AC Output Power (W)	5000
Peak Output Apparent Power (kVA)	6.9, 10s	Max. AC Apparent Power (VA)	7360(from grid)
Max. Output Current (A)	20	Max. AC Output Power (W)	5000 ¹
Nominal Output Voltage (V)	230	Nominal AC Voltage (V _{ac})	230
Nominal Output Frequency (Hz)	50/60	AC Grid Frequency Range (Hz)	50/60±5
Output THDv (@Linear Load)	<3% (Linear Load)	Max. Output Current (A)	22A ²
		Max. Input Current (A)	32
		Power Factor (cosΦ)	0.8leading-0.8lagging
		THDi	<3%
Protection			
DC Switch		Bipolar DC Switch (125A/Pole)	
Anti-islanding Protection		Yes	
Output Over Current		Yes	
DC Reverse Polarity Protection		Yes	
String Fault Detection		Yes	
AC/DC Surge Protection		DC Type II; AC Type III	
Insulation Detection		Yes	
AC Short Circuit Protection		Yes	

All-in-one Energy Storage System

Efficiency

Max. PV Efficiency	97.6%
Euro. PV Efficiency	97.0%

General Specifications

Dimensions W×H×D(mm)	540*590*240
Weight (kg)	32
Operating Temperature Range (°C)	-25°C~+60°C
Noise (dB)	<25
Cooling Type	Natural Convection
Max. Operation Altitude (m)	2000
Operation Humidity	0-95% (No Condensation)
IP Class	IP65
Topology	Battery Isolation
Communication	RS485/CAN2.0/WIFI/4G
Display	LCD/APP
Certification & Standard	IEC/EN 62109-1&2;IEC/EN61000-6-1;IEC/EN61000-6-2;EN61000-6-3; IEC/EN61000-6-4;IEC/EN61000-3-11;EN61000-3-12; IEC60529;IEC 60068;IEC61683;IEC62116;IEC61727;EN50549-1; AS 4777.2;NRS 097;VDE-AR-N-4105;CEI0-21;G98;G99;C10/C11

*1. Nominal AC output power is 4999W for Australia and 4600W for Germany and South Africa.

*2. Maximum output current is 21.7A for Australia and 20A for Germany and South Africa.

Battery Model

SL-BL-1-5 (Max. 4 Modules of 20.48kWh)

Battery Type	LFP (LiFePO ₄)
Energy Capacity (kWh)	5.12
Usable Capacity (kWh)	4.6
Depth of Discharge (DoD)	90.00%
Nominal Voltage (V)	51.2
DC Circuit Breaker (A)	125
Operating Voltage Range (V)	44.8-56.5
Internal Resistance (mΩ)	<20mΩ
Cycle Life	10000 cycle

Operation

Max. Charge/Discharge Current	50A/80A
Rated DC power	4096W
Max. Charge/Discharge Power	2825W/4096W
Operating Temperature Range	-10 to 50°C charging -10 to 50°C discharging
Humidity	0~95% (No condensation)

BMS

Modules Connection	Max.4
Capacity	100-400Ah
Power Consumption	<2W
Communication	CAN & RS485
Monitoring Parameters	System voltage, current, cell voltage, cell temperature, PCBA temperature measurement

General Specifications

Weight (kg)	54
Dimension (W×H×D)(mm)	540*490*240
IP Protection	IP65

Certificate

Safety (Cell)	Pack: IEC/EN 62619;UN38.3 Cell: IEC/EN 62619;UN38.3;UL1973
All-in-one energy storage system warranty	5 years product warranty, 10 years battery performance warranty

Mounting System

Product Name	Solar Mounting System	Design Standard	EN 1991-1-1: 2002
Building Type	Pitched Roof		UNE EN1991-1-3-2018
Tile Type	Concrete Tile, Clay Tile, Slate Tile		UNE EN 1991-1-4-2018
Tilt Angle	15-60°	Main Material	AL6005-T6(Anodized)
Wind Load	0.52KN/m ²	Fastener	SUS304 & Zinc-Nickel Alloy Electroplated Steel
Snow Load	0.6KN/m ²	Small Components	AL6005-T6(Anodized)
Applicable Solar Module	Framed	Color	Silver and black
Panel Layout	Portrait or Landscape	Certificate	TUV
Warranty	5 years		



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