
SLENERGY
Share-Home
One-Stop
Residential Energy Solution
2023.07

1 About iShare Home

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One-Stop Residential Energy Solution

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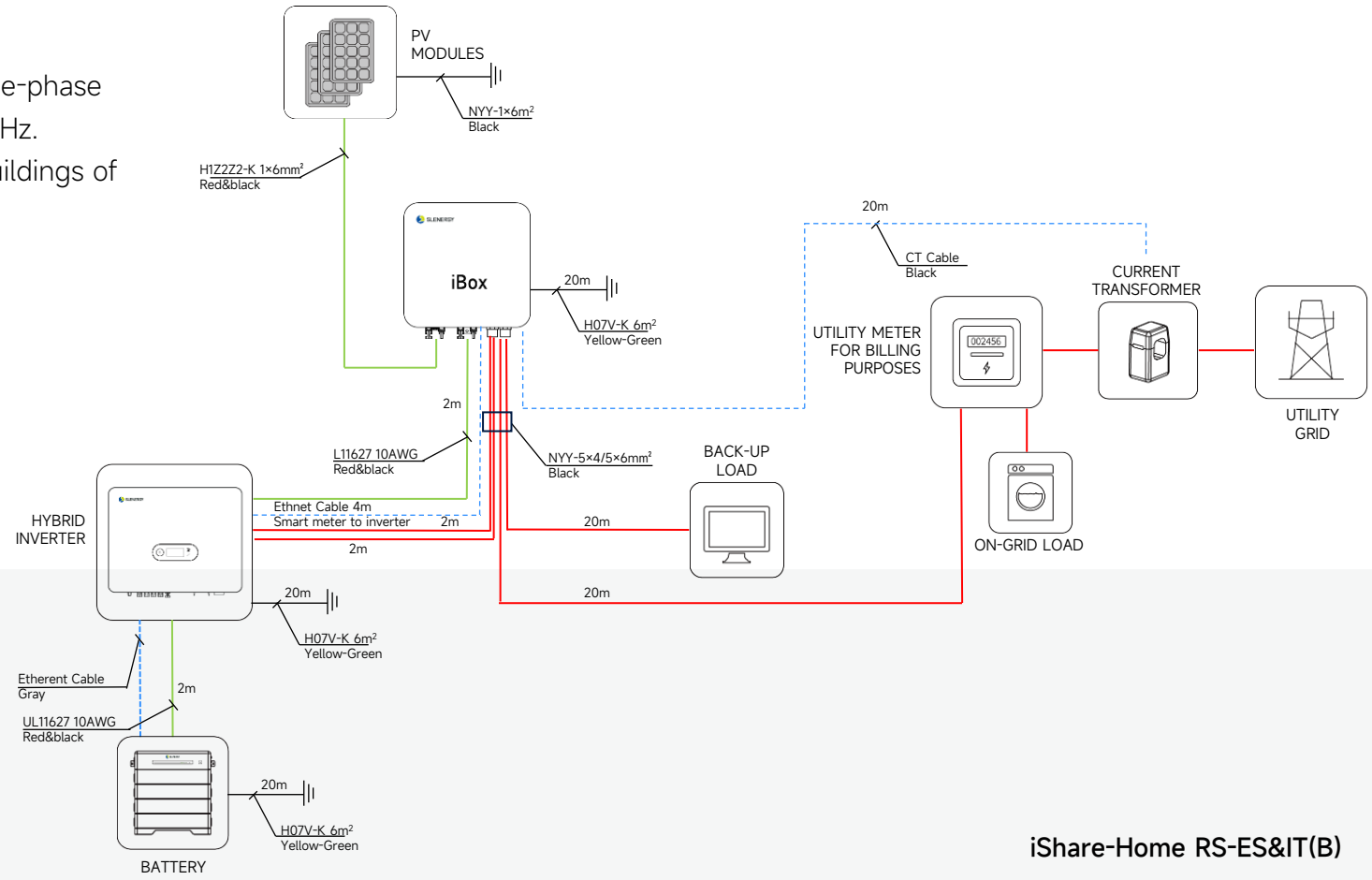
iShare-Home Residential Energy Solution

The One-Stop Residential Energy Solution applies to the three-phase power grid with a voltage of 400V and a frequency of 50/60Hz. Mounting structure is tailored specifically for Pitched Roof buildings of concrete tile, clay tile or slate tile.



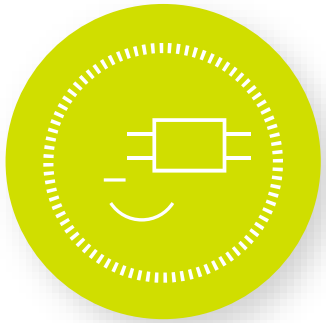
What's in the Box?

- Solar modules
- Hybrid inverter
- Energy pack
- Mounting system
- Wiring connection kit
- iBox (Backup)
- Safety label kit

iShare-Home RS-ES&IT(B)


“Zero defect” product
Simple installation With less labor and time cost
Residential smart energy system solution
Better compatibility & reliability
Integrated service system of pre-sale, sale and after-sale
One-Stop
Residential Energy Solution

Standardized System Design



Modular Product Design

Simple Installation Design

Smart Energy Management System

Standardized System Design

System Design

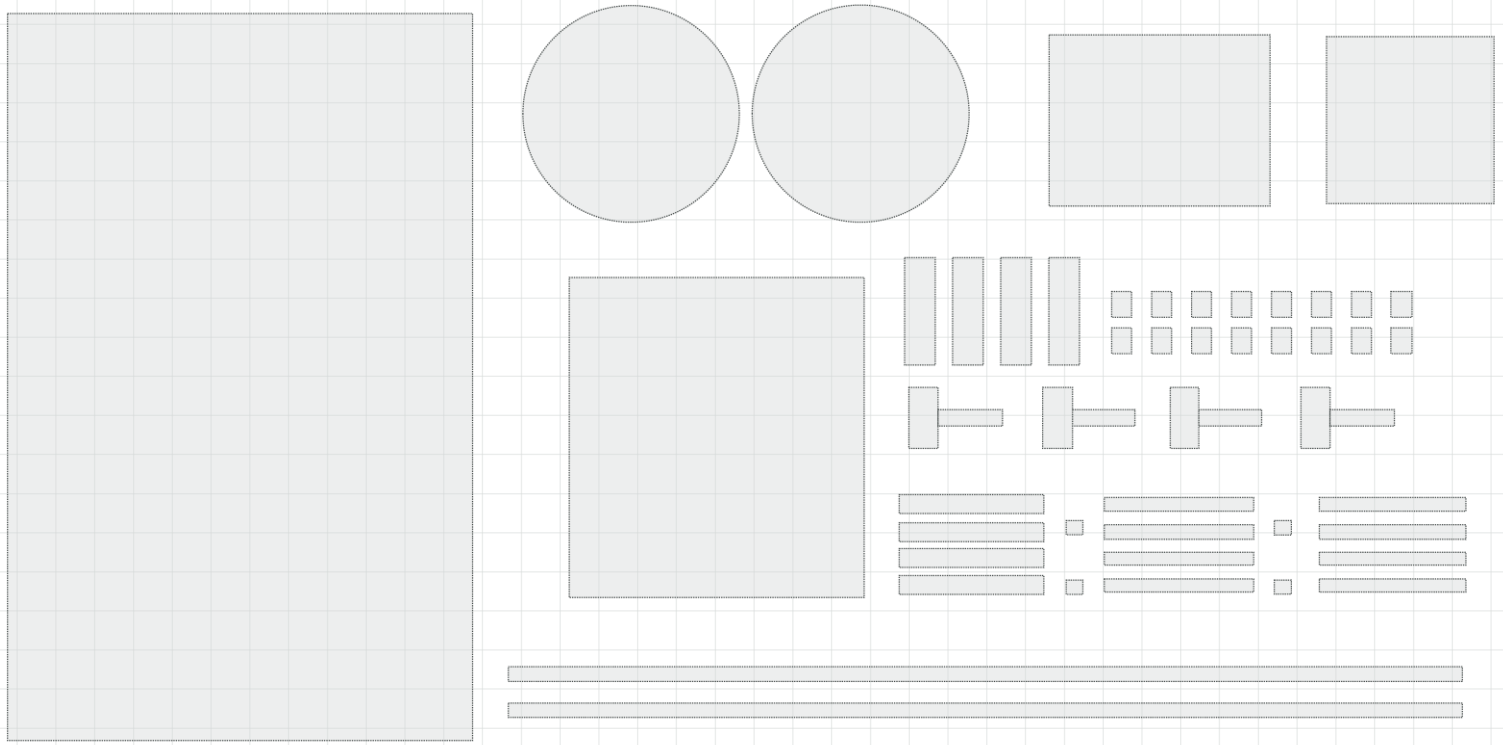
- Standard BOM

Interface design

- The connection between each equipment is designed with standard interface

Product Design

- Mounting Structure: Able to meet the load and installation requirement in most area of target market
- High compatibility
- Cable design standardization



Modular Product Design

Energy storage

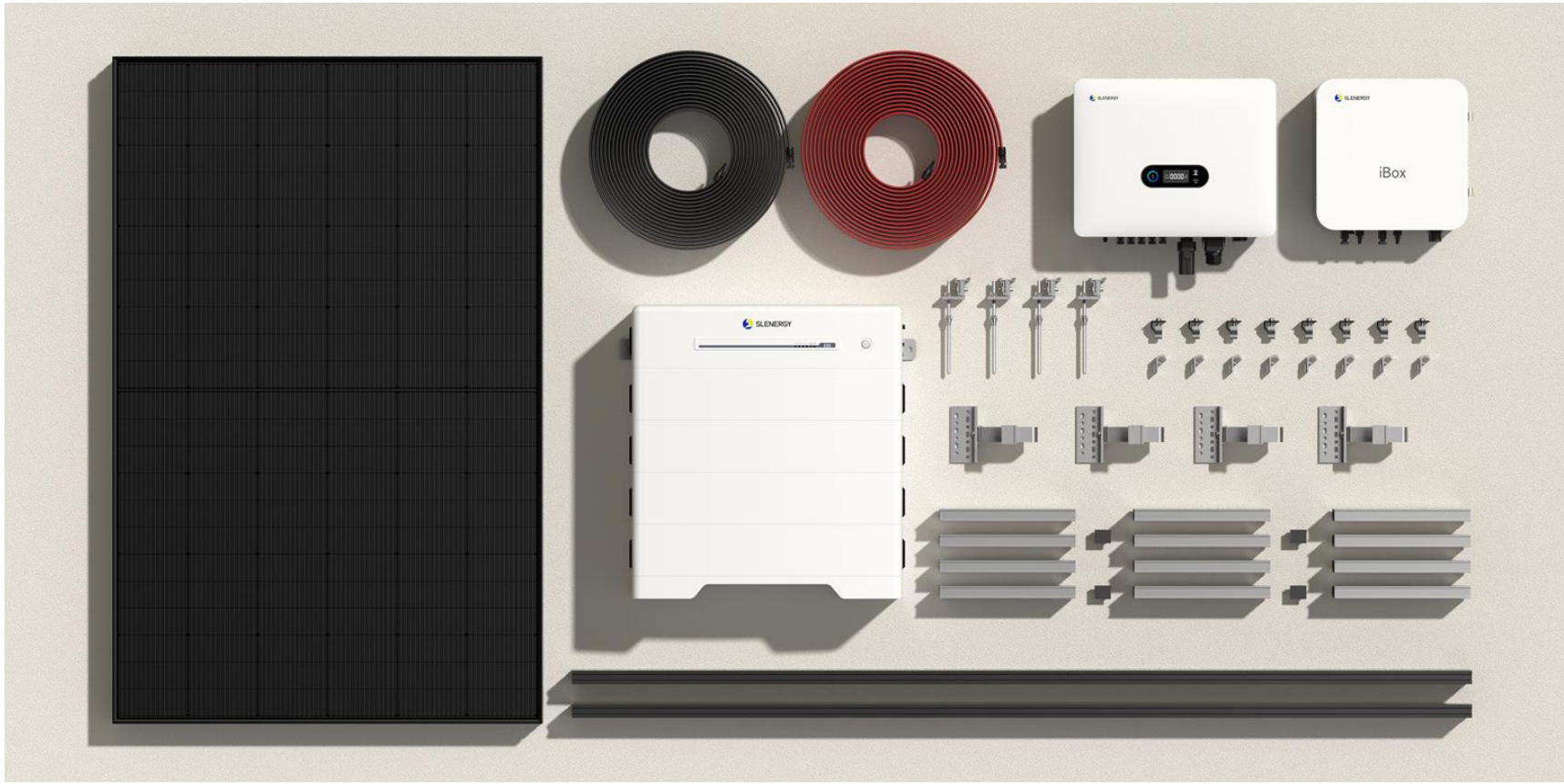
- Adopts the smallest modular unit of 2.56kWh, which can be flexibly configured according to customer needs.

Mounting structure

- Design the mounting structure of two PV modules as the smallest unit, able to maximize the use of roof area.

Packing

- Adopts system parts packing, delivers complete set



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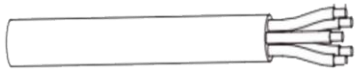
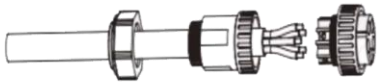
Simple Installation
Labor Saving





Others: a series of complex processes such as striping and wiring are required

No wiring, quick installation

- Storage battery installed in stack
- The connection between modules adopts male and female plug,no wiring is required

0.5h

Electrical installation save

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Simple Installatior
Time Saving

Simply connect and secure

- Mounting structure components and cable with connectors are preassembled, only need to be connected and fixed during installation

Save time, simple to install and disassemble

- Modular packaging and logistics, greatly reducing the time of primary and secondary sorting, reducing sorting errors;
- Simple to disassemble, simple to use and simple to install

Sorting saves

0.5h

Single-device-level packaging requires secondary configuration of the system, which is error-prone

Standardized system-level packaging, convenient for transportation, storage and system identification

5kW/10kWh residential solar system installation

	Labor	Time （H）	Installation fee （€）	Percentage
Others	2	8	1200	
iShare	2	7	1000	17% ↓

System standardization, modular design, component connection and simple installation design, save installation man-hours, and greatly reduce the customer's system investment cost.

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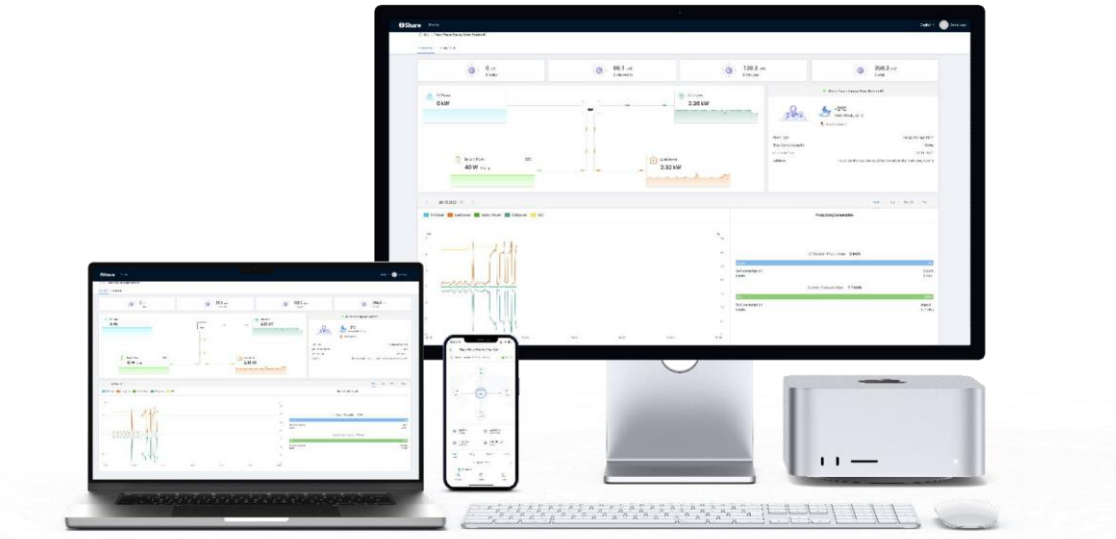
Interconnect
Online Monitoring

Smart energy management

24h

WiFi /LAN (optional)



- 24-hour monitoring of the power station's operating status, and different operating modes can be selected according to the household's electricity consumption
- Able to automatically detect the installation of CT or meter to prevent abnormal operation of the inverter caused by incorrect installation of CT or meter
- Support remote upgrade and equipment failure alarm function

2 About Products

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PV Module - ES

Max. Efficiency
20.7%

Module Power
405W

low-profile and minimalist aesthetic
All Black

Model	SL-108PA-405
Maximum power / W	405
Open-circuit voltage / V	37.38
Short circuit current / A	13.76
Peak power voltage / V	31.35
Peak power current / A	12.92
Temperature coefficient of short circuit current (Isc) / A	+0.048%/°C
Temperature coefficient of open circuit voltage (Voc) / V	-0.26%/°C
Temperature coefficient of peak power (Pmax) / W	-0.340%/°C
Max. Efficiency	20.70%
Weight (L*W*H) / kg	1722*1134*30 / 21.2
Certificate	IEC 61215, IEC 61730, IS 9001: 2015, ISO 14001:2015, IEC 62716, IEC 61701, IEC TS 62804-1, IEC 60068-2-68

2.00%

First year Power Degradation

0.5%

Year 2-25 Power Degradation

12-year

Warranty for materials and Processing

25-Year

Warranty for Extra Linear Power Output

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PV Module - IT

Max. Efficiency
20.74%

Module Power
405W

low-profile and minimalist aesthetic
All Black

Model	SL-108PA-405R
Maximum power / W	405
Open-circuit voltage / V	37.19
Short circuit current / A	13.87
Peak power voltage / V	31.23
Peak power current / A	12.97
Temperature coefficient of short circuit current (Isc) / A	+0.048%/°C
Temperature coefficient of open circuit voltage (Voc) / V	-0.270%/°C
Temperature coefficient of peak power (Pmax) / W	-0.350%/°C
Max. Efficiency	20.74%
Weight (L*W*H) / kg	1722*1134*30 / 21.5
Certificate	IEC 61215, IEC 61730, IS 9001: 2015, ISO 14001:2015, IEC 62716, IEC 61701, IEC TS 62804-1, IEC 60068-2-68

2.00%

First year Power Degradation

0.55%

Year 2-25 Power Degradation

12-year

Warranty for materials and Processing

25-Year

Warranty for Extra Linear Power Output

Inverter

- Max. Efficiency **98.2** %
- 15A PV input current per string, 1-2 technology provides numerous layout and design options.
- 25A/40A charge/discharge current
- Within **10ms** UPS-level switching
- **125%** continuous AC output overloading
- Max. **150%** back-up output overloading @60s
- Dual MPPT technology provides numerous layout and design options.
- Large MPPT voltage range
- Up to **110%** unbalanced load
- Active power off protection and Arc-fault circuit interrupter
- Integrated DC disconnect and utility grade meters
- IEC/EN 62109, IEC/EN 61000, CEI-021 (Italy), UNE 217001\217002 (Spain), G98/99 (England List)

Energy Storage Battery

- Safer $LiFePO_4$ batteries
- Flexible Application Modular design with extensible capacity from5.12-20.48kWh
- Reliable Performance Long working life with 6000 cycles @80% DOD
- Stacked structure with optimized installation mode
- Better temperature sensitivity increases cycle usage
- Excellent deep discharge recovery with fast recharge performance
- CE, UN38.3, MSDS, CB/EMC, IP

Remark:The products are continuously upgraded, subject to the final delivery.

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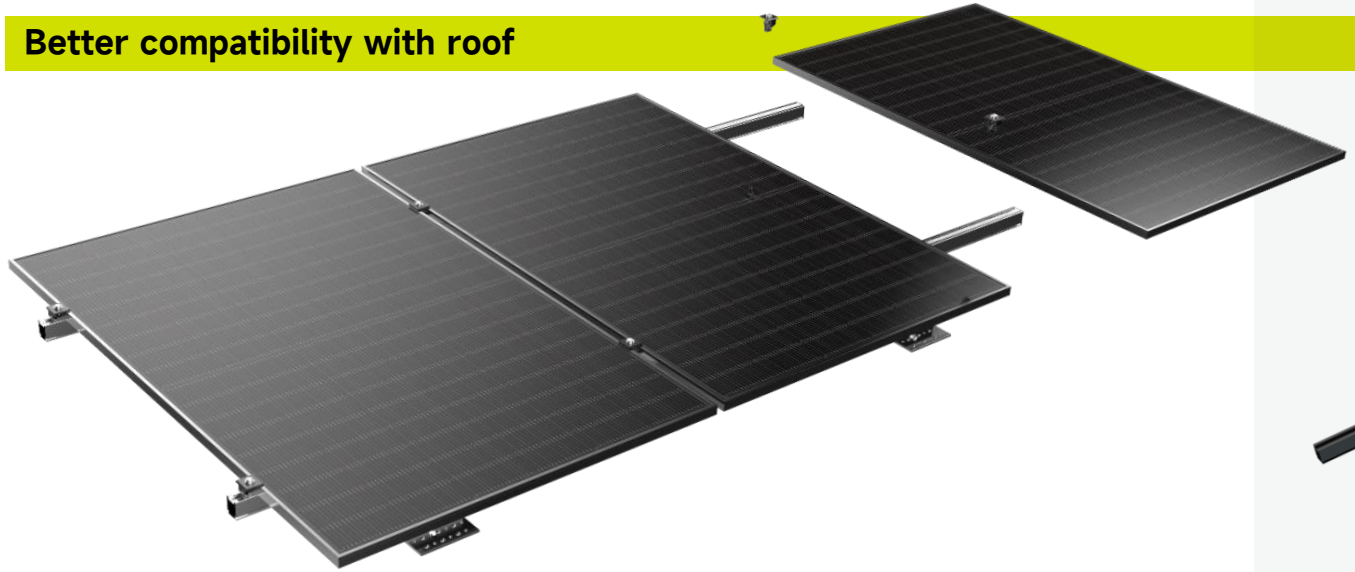
Battery	SL-BH-3-7	SL-BH-4-10	SL-BH-5-12	SL-BH-6-15	SL-BH-7-17	SL-BH-8-20
NO. of series battery	3	4	5	6	7	8
Rated power (kWh)	7.68	10.24	12.8	15.36	17.92	20.48
Usable energy (kWh)	6.9	9.2	11.52	13.8	16.13	18.4
Rated voltage (V)	153.6	204.8	256	307.2	358.4	409.6
Voltage range (V)	134.4~172.8	179.2~230.4	224~288	268.8~345.6	313.6~403.2	358.4~460.8
Nominal Capacity	50Ah					
Maximum Charge/Discharge Current	25A (Recommend) / 50A (Maximum)					
Cycle Times	6000 Cycle @80% DOD,residual capacity>60%					
Communication	RS485/RS232/CAN 2.0					
Working Temperature	0°C-55°C@Charging/ -20°C~55°C@Discharging					
Dimensions (W*D*H mm) / Weight (kg)	710*320*639	710*320*776	710*320*913	710*320*1050	710*320*1187	710*320*1324
	118	150.8	183.6	216.4	249.2	282
Working Condition						
Installation	Indoor					
Working temperature	-10°C~50°C					
Protection degree	IP54					
Humidity	5%-95%					
Altitude	≤2000					
Cooling	Natural					
Certificate	CE,UN38.3, MSDS					

Mounting Structure

High strength aluminum alloy

Minimum modular design with two PV panels

Better compatibility with roof



Hook/Hanger Bolt

Easy to fix rail and adjust leveling

Easy to adjust hook height

Hook height adjusting range 40-55mm

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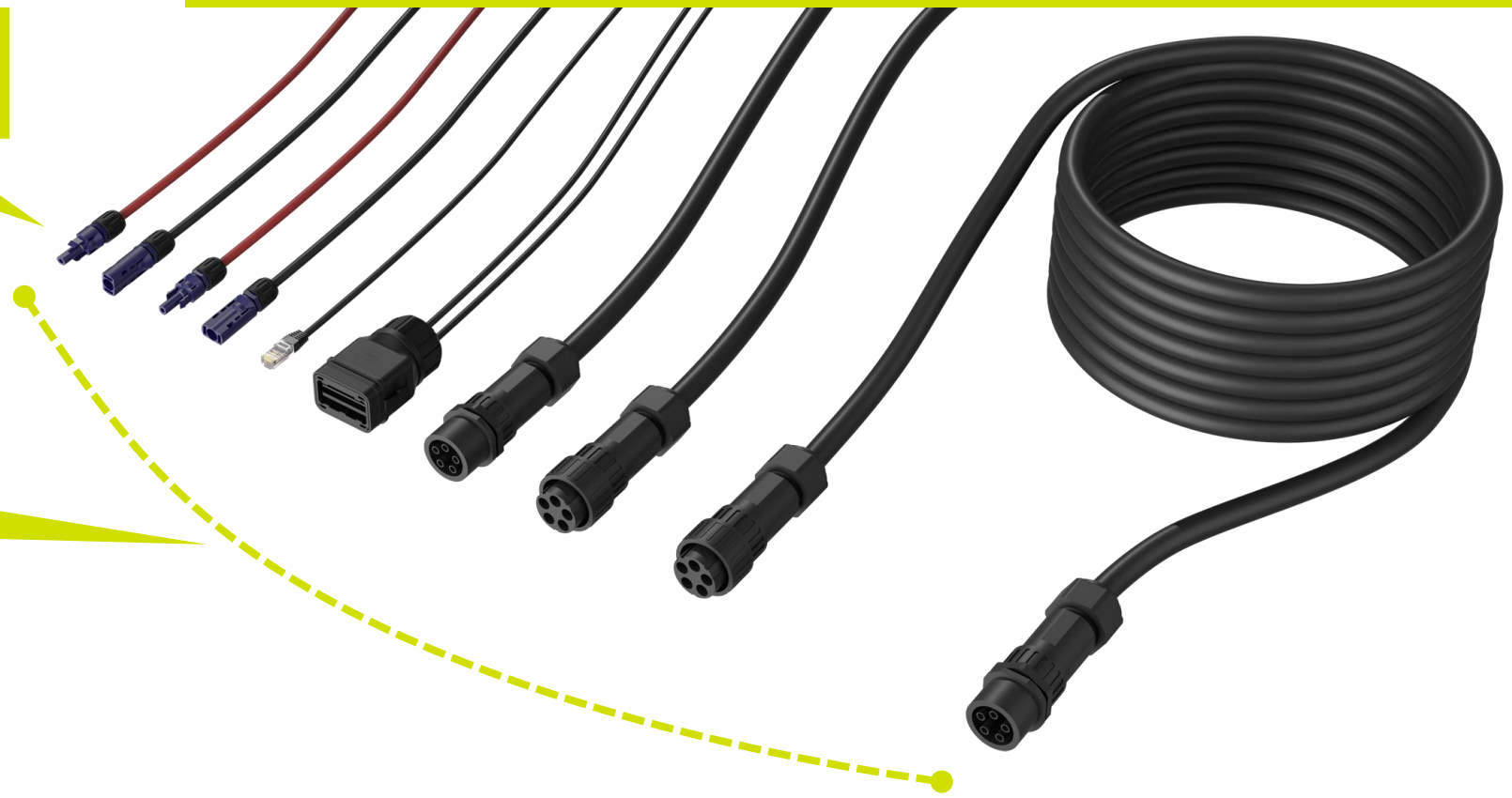
Cable Set

Standardized wire length, Pre-installed plugs

Plug and play

Full cable set



Cable Set

- Wide application flexibility
- Superior durability and longevity
- Cost and time savings with connectors prefabricated

No.	Name	specification	From	To	Remark	Length(m)	Accessory bag
1	PV DC Cable	H1Z2Z2-K 1×6mm^2	PV Modules	iBox PV input connector	Cable terminals are made and installed on site	40~80m*2	MC4 Connector
2	iBox to Inverter DC Cable	UL 11627 10AWG	Inverter Battery connector	Battery output connector	Cable terminals are prefabricated and installed at the factory	2m*2	-
3	Inverter to Battery DC Cable	UL 11627 10AWG	Inverter Battery connector	Battery output connector	Both side terminals are prefabricated and installed at the factory	4m*2	-
4	Inverter to iBox AC Cable (On grid)	NYY 5×4mm^2/5×6mm^2	Inverter AC output connector	iBox AC input connctor	Cable terminals are prefabricated and installed at the factory	2m	-
5	Inverter to iBox AC Cable (Backup)	NYY J 5×4mm^2/5×6mm^2	Inverter AC output connector	iBox AC input connctor	Cable terminals are prefabricated and installed at the factory	2m	-
6	iBox to Utility Distribution Box (on grid)	NYY J 5×4mm^2/5×6mm^2	iBox AC Output connector	Utility Distribution Box	iBox side terminal is prefabricated and installed at the factory	20m	
7	iBox to Utility Distribution Box (Backup)	NYY J 5×4mm^2/5×6mm^2	iBox AC Output connector	Utility Distribution Box	iBox side terminal is prefabricated and installed at the factory	20m	
8	Inverter PE	H07V-K 6mm^2	Inverter grounding hole	External ground Bar	Inverter side terminals are prefabricated and installed at the factory	20m	-
9	Battery PE	H07V-K 6mm2	Battery grounding hole	External ground Bar	Inverter side terminals are prefabricated and installed at the factory	20m	-
10	iBox PE	H07V-K 6mm^2	iBox Grounding hole	External ground Bar	Inverter & Battery side terminals are prefabricated and installed at the factory	20m	
11	PV Roof Grounding	NYY-1×6mm^2	PV supporting bracket	External ground Bar	Cable terminals are made and installed on site	40~60m	-
12	Communication Cable	UTP CAT5e	Inverter Multi-com Connector (COM2)	Meter	Both side terminals are prefabricated and installed at the factory	2m	-
13	Communication Cable	UTP CAT5e	Inverter Multi-com Connector (COM2)	Battery	Both side terminals are prefabricated and installed at the factory	4m	-

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iBox

Integrated power distribution

System friendly access

DC&AC safety protection

iBox	SL-BH12KR	SL-BH15KR
DC Side		
Max input/output voltage [V_{DC}]	1000	600
Max input/output current [A]	15A/30	15/30
AC Side/Back-up (Optional)		
Rated input/output voltage [V_{AC}]	415	415
Max input/output current [A]	20A	25
Rated Frequency [Hz]	50/60	50/60
Working enviroment		
Operation Temperature [°C]	-10 ~ +50	-10 ~ +50
Relative Humidity	98% Non condensation	98% Non condensation
Altitudes [m]	≤2000m	≤2000m
Protection degree	IP54	IP54
Installation methods	Indoor, Hanging	Indoor, Hanging
Standards & Certifications		
Standards	IEC61439-1, IEC61439-2	IEC61439-1, IEC61439-2
Certifications	CE	CE
Dimensions [WxHxD mm]	475x425x175	400x450x160
Weight [kg]	18KG	20KG
Warranty	5 years	

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System Configuration

Model	iShare-Home 4kW	iShare-Home 5kW	iShare-Home 6kW	iShare-Home 8kW	iShare-Home 10kW	iShare-Home 12kW	iShare-Home 15kW
No.PV modules(pcs)	10/12	14/16	18/20	22/24/26	28/30/32	34/36	38/40/42/44/46/48
Effective Roof Area Approx.	$20m^2$~$30m^2$	$30m^2$~$35m^2$	$36m^2$~$44m^2$	$48m^2$~$63m^2$	$65m^2$~$83m^2$	$85m^2$~$90m^2$	$92m^2$~$133m^2$
Inverter	SL-D4KTR-H25	SL-D5KTR-H25	SL-D6KTR-H25	SL-D8KTR-H25	SL-D10KTR-H25	SL-D12KTR-H25	SL-D15KTR-H40
Battery	7-12kWh	7-20kWh	7-20kWh	7-20kWh	7-20kWh	7-20kWh	7-20kWh
Cable set	1set	1set	1set	1set	1set	1set	1set
Mounting Structure set	1set	1set	1set	1set	1set	1set	1set
Cloud & APP	1set	1set	1set	1set	1set	1set	1set
iBox	SL-BH12KR						SL-BH15KR
Power Generation (Rome)	14~17kWh/day 5058~6080kWh/year	19~22kWh/day 7081~8092kWh/year	25~27kWh/day 9104~10115kWh/year	30.5~36kWh/day 11128~12139kWh/year	38~44.5kWh/day 14162~16185kWh/year	47~50kWh/day 17196~18208kWh/year	52~66.5kWh/day 20231~24280kWh/year
Power Generation (Madrid)	16~22kWh/day 5845~7014kWh/year	22.5~25kWh/day 8183~9352kWh/year	29~32kWh/day 10520~11690kWh/year	33~36kWh/day 12859~15197kWh/year	45~51kWh/day 16366~18704kWh/year	55~58kWh/day 19873~21042kWh/year	61~77kWh/day 22211~28055kWh/year

- Take Madrid, Spain as a reference. The annual peak sunshine hours are 1760 h / Take Rome, Italy as a reference. The annual peak sunshine hours are 1523 h
- Each 1kWh generated reduce 0.997kg of CO_2

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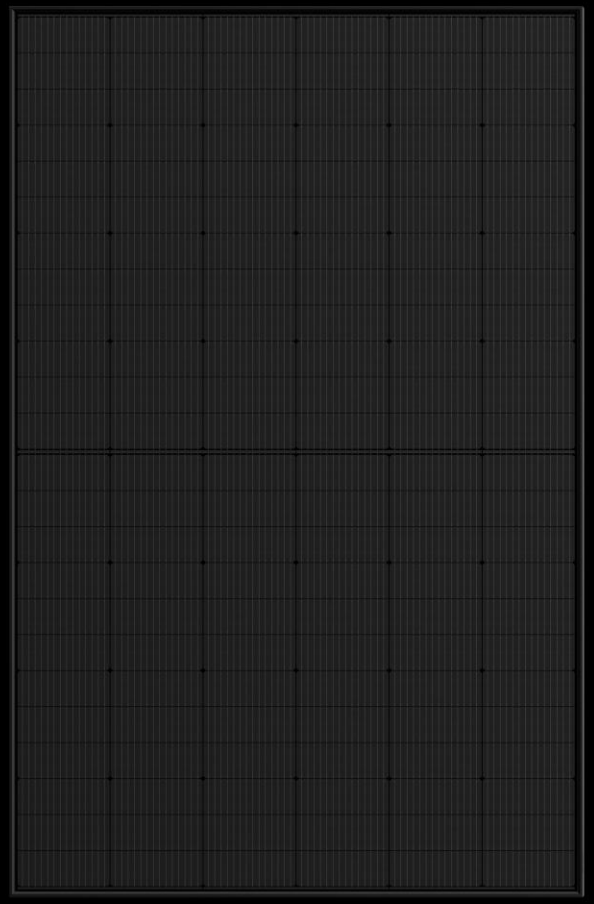

Valuable

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

Smart

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

Reliable

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

Simple

- Preassembled parts, simple connection
- Packing in system, convenient for warehouse sorting


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