



## Share-Home

One-Stop Residential Energy Solution



### 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

iShare-Home Smart Solar Solution				
Model	iShare-Home 3kW	iShare-Home 4.2kW	iShare-Home 6kW	iShare-Home 8kW
System Capacity	3	4.2	6	8
No. PV Modules(pcs)/425W	6/8	10/12	14/16/18	20/22/24
Effective Roof Area Approx.	13m <sup>2</sup> -17m <sup>2</sup>	21m <sup>2</sup> -26m <sup>2</sup>	30m <sup>2</sup> -39m <sup>2</sup>	43m <sup>2</sup> -52m <sup>2</sup>
Inverter	SL-D3KTL-H30	SL-D4.2KTL-H30	SL-D6KTL-H30	SL-D8KTL-H30
Battery	SL-BH-2-5 ~ SL-BH-8-20			
Cable set	DC Cable: H1Z2Z2-K 1×6mm <sup>2</sup> ; UL 11627 10AWG			
	AC Cable: NYY-J 3G4mm <sup>2</sup> /6mm <sup>2</sup> /8mm <sup>2</sup>			
	Earthing Cable: NYY-1×6mm <sup>2</sup> , H07V-K 6mm <sup>2</sup>			
	Ethernet Cable: UTP CAT5e			
Mounting structure set	Rail, hook kit/hanger bolt kit, rail connector, mid-clamp, end-clamp, earthing lug and other accessories			
iBox	SL-BH5KL		SL-BH10KL	
Power Generation Estimates (Italy)	9~12kWh/day 3185~4246kWh/year	15~17kWh/day 5308~6369kWh/year	20~26kWh/day 7431~9554kWh/year	29~35kWh/day 10615~12738kWh/year
Power Generation Estimates (Spain)	10~13kWh/day 3680~4907kWh/year	17~20kWh/day 6134~7360kWh/year	24~30kWh/day 8587~11040kWh/year	34~40kWh/day 12267~14721kWh/year

The power generation is calculated based on Rome, Italy. The annual peak sunshine hours are 1523h.  
The power generation is calculated based on Madrid, Spain. The annual peak sunshine hours are 1760h.  
Each kWh generated reduces 0.997kg of CO<sub>2</sub>.

PV Modules	SL-108NA-425R
Maximum power (Pmax/W)	425
Open-circuit voltage (Voc/V)	37.83
Short circuit current (Isc/A)	14.05
Peak power voltage (Vmp/V)	31.94
Peak power current (Imp/A)	13.31
Temperature coefficient of short circuit current (Isc)	+0.050%/°C
Temperature coefficient of open circuit voltage (Voc)	-0.263%/°C
Temperature coefficient of peak power (Pmax)	-0.343%/°C
Max. Efficiency	21.76%
Dimension (L*W*H mm)	1722×1134×30
Weight (kg)	21.5
Certificate	IEC 61215, IEC 61730 ISO 9001:2015 ISO 14001:2015 ISO 45001:2018
Warranty	Warranty 30 years linear power and 12 years material and workmanship

Inverter				
Model	SL-D3KTL-H30	SL-D4.2KTL-H30	SL-D6KTL-H30	SL-D8KTL-H30
Recommended Max. input power [kW]	4.8	6.72	9.6	12.8
Start-up voltage [V]	80	80	80	80
Max. DC input voltage* [V]	600	600	600	600
Rated DC input voltage [V]	360	360	360	360
MPPT voltage range** [V]	100-550	100-550	100-550	100-550
No. of MPP trackers	1	2	2	2
No. of DC inputs per MPPT	1	1/1	1/1	1/1
Max. input current [A]	15	15/15	15/15	15/15
Max short-circuit current [A]	20	20/20	20/20	20/20

Battery Side	
Battery type	Lithium Battery (with BMS)
Battery voltage range [V]	85-450
Maximum charging/discharging current [A]	30/30

Grid Side				
Rated output power [kW]	3	4.2	6	8
Max. output apparent power [kVA]	3.3	4.6	6.6	8
Max. input apparent power*** [kVA]	6	8.4	10	12
Max. charging power of battery [kW]	3	4.2	6	8
Rated AC votage	L/N/PE:220/230/240V			
Rated AC frequency [Hz]	50/60	50/60		
Max. output current [A]	15	21	50/60	50/60
Power factor	0.8 leading ... 0.8 lagging 28.7			36.3
Max. total harmonic distortion	<0.3% @Rated output power			
DCI	<0.5%In	<0.5%In	<0.5%In	<0.5%In

Back-up side				
Rated output power [kW]	3	4.2	6	8
Max. output apparent power [kVA]	3.3	4.6	6.6	8
Max. output current [A]	15	21	28.7	36.3
UPS switching time	<10ms	<10ms	<10ms	<10ms
Rated output voltage	L/N/PE:220/230/240V			
Rated output frequency [Hz]	50/60	50/60	50/60	50/60
Peak Output Apparent Power (kVA)****	3.9, 60s	5.5, 60s	7.8, 60s	10, 60s
Voltage harmonic distortion	<3% @Linear load			

Efficiency				
Max. Efficiency	97.60%	97.60%	97.60%	97.60%
European efficiency	97.00%	97.00%	97.00%	97.00%
Warranty	5 years standard, 10 years optional			
Protection	General Data			
DC reverse polarity protection	Integrated	Over voltage category	PV:II Main: III	
Battery input reverser connection protection	Integrated	Dimensions [WxHxD mm]	534x418x210	
Insulation resistance protection	Integrated	Weight [kg]	27	
Surge protection	Integrated	Protection Degree	IP65	
Over-temperature protection	Integrated	Standby self-consumption [W]	<15	
Residual current protection	Integrated	Topology	Transformerless	
Islanding protection	Integrated	Operating Temperature Range [°C]	-30-60	
AC over-voltage protection	Integrated	Relative Humidity	0-100	
Overload protection	Integrated	Operating Altitude	3000 (>3000m derating)	
AC short-circuit protection	Integrated	Cooling	Natural Convection	
		Noise Level [dB]	<25	
		Display	OLED&LED	
		Communication	CAN, RS485, WiFi/LAN(Optional)	

- \* Max. operating DC voltage is 550V, max. withstanding DC voltage is 600V
- \*\*The maximum MPPT voltage and operating voltage upper limit will be reduced to 520 V when inverter connects and works with battery
- \*\*\* Max apparent power from the grid means the maximum power imported from the utility grid used to satisfy the backup loads and charge the battery
- \*\*\*\* The output power will exceed the rated value only when the power in the PV array is sufficient, and the duration of the overload is related to the overload power

Battery							
Model	SL-BH-2-5	SL-BH-3-7	SL-BH-4-10	SL-BH-5-12	SL-BH-6-15	SL-BH-7-17	SL-BH-8-20
Electrical Parameters							
No. of series battery	2	3	4	5	6	7	8
Rated energy [kWh]	5.12	7.68	10.24	12.8	15.36	17.92	20.48
Usable energy [kWh]	4.6	6	9.2	11.52	13.8	16.13	18.4
Rated voltage [V]	102.4	153.6	204.8	256	307.2	358.4	409.6
Voltage range [V]	89.6~115.2	134.4~172.8	179.2~230.4	224~288	268.8~345.6	313.6~403.2	358.4~460.8
Rated capacity [Ah]	50						
Charge current [A]	25(Recommended)/50(MAX)						
Discharge current [A]	25(Recommended)/50(MAX)						
Cycle times	80% DOD, cycles >6000, residual capacity >70%						
Communication	RS485/RS232/CAN 2.0						
Protection function	Over voltage/Under voltage/Over temperature/Low temperature/Over current/Short circuit						
Size [WxDxH, mm]	710×320×502	710×320×639	710×320×776	710×320×913	710×320×1050	710×320×1187	710×320×1324
Weight [kg]	85.2	118	150.8	183.6	216.4	249.2	282

Working Conditions	
Installation	Indoor
Working temperature	-10°C-50°C
Optimum working temperature	20°C~60°C
Storage temperature	-30°C~60°C
Protection degree	IP54
Humidity	5%-95%
Altitude [m]	≤2000
Cooling	Natural
Certificate	CE,UN38.3, MSDS, CB/EMC, IP
Warranty	10 years

iBox	SL-BH5KL	SL-BH10KL	Mounting System	
<b>DC Side</b>			Product Name	Solar Mounting System
Max input/output voltage [V <sub>DC</sub> ]	560	600	Building Type	Pitched Roof
Max input/output current [A]	15	15	Tile Type	Concrete Tile, Clay Tile, Slate Tile
<b>AC Side/Back-up</b>			Tilt Angle	15-60°
Rated input/output voltage [V <sub>AC</sub> ]	230	230	Wind Load	0.52KN/m <sup>2</sup>
Max input/output current [A]	22	45.4	Snow Load	0.6KN/m <sup>2</sup>
Rated Frequency [Hz]	50/60	50/60	Applicable Solar Module	Framed
<b>Working enviroments</b>			Panel Layout	Portrait or Landscape
Operation Temperature [°C]	-10 ~ +50	-10 ~ +50	Design Standard	EN 1991-1-1: 2002
Relative Humidity	98% Non condensation	98% Non condensation		UNE EN1991-1-3-2018
Altitudes [m]	≤2000m	≤2000m		UNE EN 1991-1-4-2018
Protection degree	IP54	IP54	Main Material	AL6005-T6(Anodized)
Installation methods	Indoor, Hanging	Indoor, Hanging	Fastener	SUS304 & Zinc-Nickel Alloy Electroplated Steel
<b>Standards &amp; Certifications</b>			Small Components	AL6005-T6(Anodized)
Standards	IEC61439-1, IEC61439-2	IEC61439-1, IEC61439-2	Color	Silver and black
Certifications	CE	CE	Certificate	TUV
Dimensions [W×H×D mm]	400×400×160	400×450×160	Warranty	10 years
Weight [kg]	14	17		
Warranty	5 years			