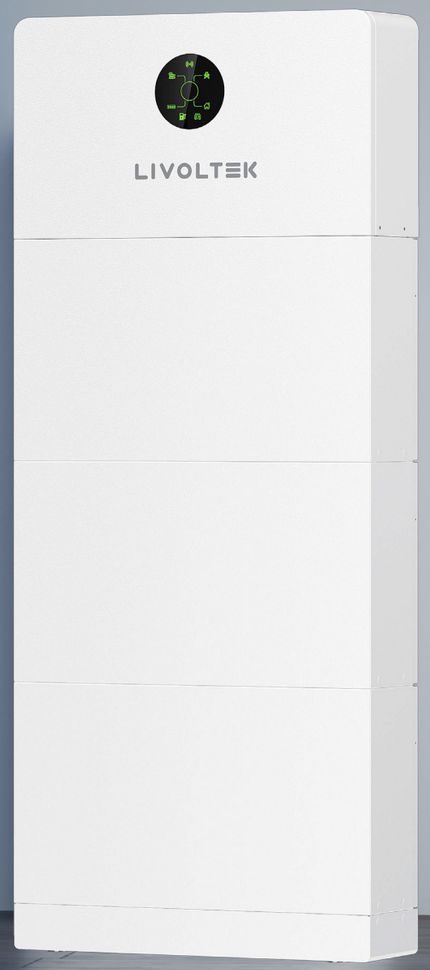
LIVOLTEK

All-in-One ESS

iPower HES1-3K/3.6K/4.6K/5K/5.5K/6KS2
HES1-1.5K/3KL2

The all-new iPower HES1-3K/3.6K/4.6K/5K/5.5K/6KS2 series is an integrated residential solar-storage-charging solution. Featuring a completely redesigned exterior that blends with home decor styles, it offers simple and convenient installation with a neat, aesthetically pleasing result after setup. Compatible with large photovoltaic modules, it can simultaneously charge batteries and feed power to the grid at rated capacity. With millisecond-level grid-tie/off-grid switching capability, the off-grid mode supports 2x power output for 10 seconds. Its integrated solar-storage-charging logic delivers greater economic benefits for users.



High Performance

- Supports 200% PV oversizing with 210 mm modules for maximum solar yield.
- Low PV start voltage enables earlier, more efficient generation.
- Up to 13.8 kW PV input, supporting 200% of rated capacity.
- Smart CT metering for cost-efficient, fast installation.
- Ultra-quiet <35 dB for a seamless, silent home experience.

High Reliability

- Supports 200% overload for 10 seconds under peak demand.
- IP66 protection ensures reliable operation in humid conditions.
- Built-in battery heating maintains performance in extreme cold.

Intelligent Control

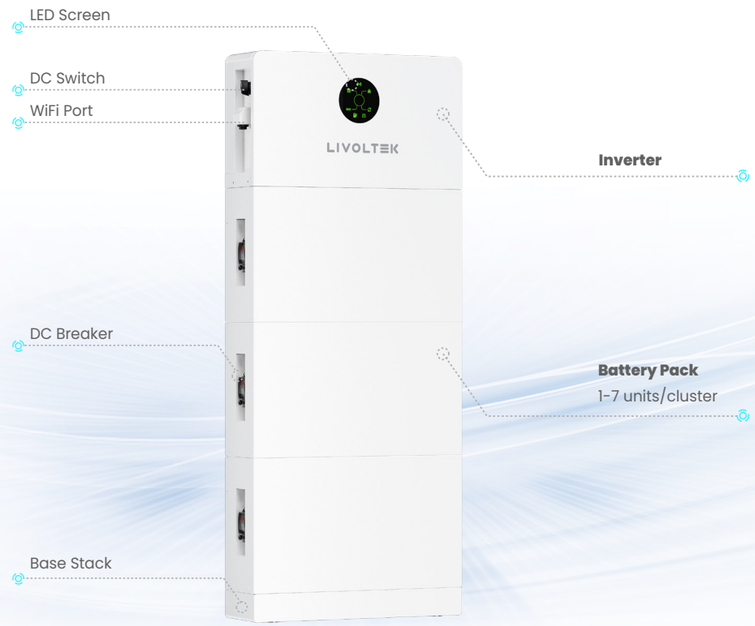
- Seamless switching <10 ms for uninterrupted backup.
- 7×24 scheduling with six periods maximizes energy savings.
- Integrated PV & storage with ECO mode for cleaner, cheaperelectricity.
- Smart heat pump control uses surplus PV energy for green heating.

Flexible Expansion

- Plug-and-play design enables fast installation.
- Expandable battery capacity up to 35 kWh per unit.
- Up to 2 units in parallel, delivering 12 kW output and 70 kWh storage.

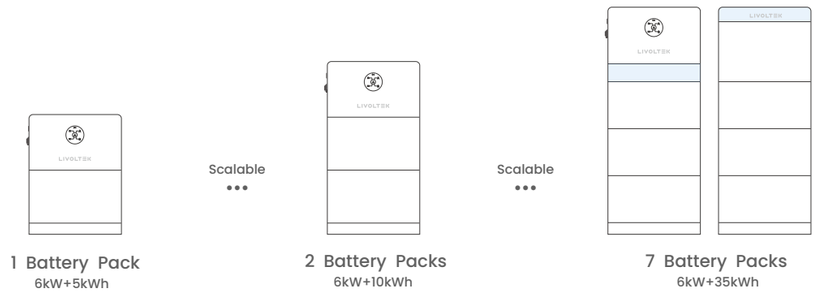
202610V2 Edition
Design and specifications are subject to change without notice

PRODUCT STRUCTURE

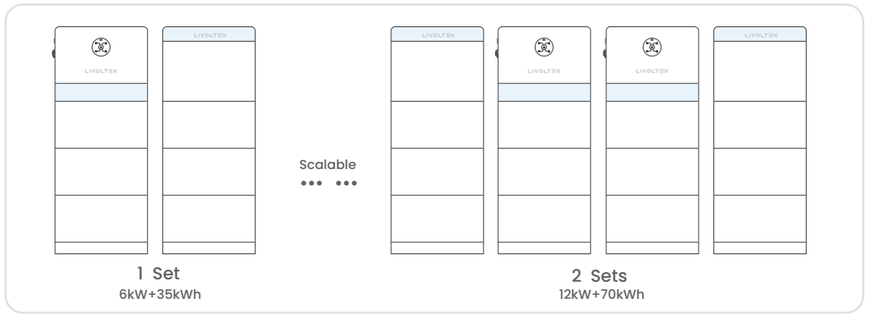


TYPICAL APPLICATION SCENARIOS

1 HES1-3-6K can support up to **7 BLF-SR** battery packs in parallel



Up to **2 HES1-3-6K** can be connected in parallel



All-in-One ESS

INVERTER

iPower HES1-3K/3.6K/4.6K/5K/5.5K/6KS2, HES1-1.5K/3KL2

Model	HES1-1K5L2	HES1-3KL2	HES1-3KS2	HES1-3K6S2	HES1-4K6S2	HES1-5KS2	HES1-5KS2C	HES1-5K5S2	HES1-6KS2
PV Parameters									
Max. PV Input Power (kW)	3	6	6	7.2	9.2	10	10	11	12
Max. PV Input Voltage (V)	500								
Nominal Input Voltage (V)	370								
MPPT Voltage Range (V)	60-500								
Start-up Voltage (V)	70								
No. of MPPTs/Strings per MPPT	2/1	2/1	2/1	2/1	2/1	2/1	2/1	2/1	2/1
Max. PV Current (A) per MPPT	18/18	18/18	18/18	18/18	18/18	18/18	18/18	18/18	18/18
Max. Short Circuit Current (A) per MPPT	22/22	22/22	22/22	22/22	22/22	22/22	22/22	22/22	22/22
AC Parameters @ Grid									
Nominal AC Output Power (kW)	1.5	3	3	3.68	4.6	5	5	5.5	6
Max. Apparent Output Power (kVA)	1.7	3.3	3.3	4	5	5.5	5	6	6.6
Max. AC Input Power (kW)	7.2	7.2	13.8	13.8	13.8	13.8	13.8	13.8	13.8
Nominal AC Voltage (V)	L/N/PE, 110/120/127		L/N/PE, 220/230/240						
AC Frequency (Hz)	50/60, 45-55/55-65								
Rated Output Current (A)	12.5@120V /	25@120V /	13.6@220V /	16.7@220V /	20.9@220V /	22.7@220V /	22.7@220V /	25@220V /	27.3@220V /
Max. Output Current (A)	13.8@120V /	27.5@120V /	15@220V /	18.4@220V /	23@220V /	25@220V /	22.7@220V /	27.5@220V /	30@220V /
Max. Input Current (A)	60								
THDi, Rated Power (%)	<3								
Power Factor	-1 (0.8 lagging to 0.8 leading)								
AC Parameters @ Generator									
Max. AC Input Power (kW)	7.2	7.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2
Nominal AC Voltage (V)	L/N/PE, 110/120/127		L/N/PE, 220/230/240						
AC Frequency (Hz)	50/60, 45-55/55-65								
Backup Parameters @ Off Grid									
Nominal Backup Power (kW)	1.5	3	3	3.68	4.6	5	5	5.5	6
Backup Peak Power @ 10s (kW)	2 times of rated power, 10s								
Nominal Output Voltage (V)	L/N/PE, 110/120/127		L/N/PE, 220/230/240						
Nominal Frequency (Hz)	50/60, 45-55/55-65								
Nominal Output Current (A)	12.5@120V / 11.8@127V	25@120V / 23.6@127V	13.6@220V / 13@230V	16.7@220V / 16@230V	20.9@220V / 20@230V	22.7@220V / 21.7@230V	22.7@220V / 21.7@230V	25@220V / 23.9@230V	27.3@220V / 26.1@230V
THDv, Rated Power (%)	<3								
Switch Time(ms)	<10								
Battery Parameters									
Battery Type	Lithium-ion								
Battery Voltage Range (V)	40-60								
Max. Charge/Discharge Current (A)	65	125							
Efficiency									
Max. Efficiency (%)	97.6								
Euro Efficiency (%)	96.8								
Min. Efficiency @ 30% Rate Power (%)	93								
General Data									
Topology	Transformerless								
Dimensions (W × H × D, mm)	680 × 1388.4 × 200@6kW+10kWh (inverter: 680 × 405 × 200; battery: 680 × 431.2 × 198)								
Weight (kg)	28								
Warranty	5 Years/10 Years (the warranty period depends the final installation site of inverter, more info please refer to warranty policy)								
Noise (Typical) (dB)	≤35								
Altitude(m)	2000								
Cooling	Natural cooling								
Protection Rating	IP66								
Mounting Method	Wall or floor mounting								
Operating Temperature Range (°C)	-25 to +60 (>45 derating)								
Ambient Humidity (%)	0-100 (non-condensing)								
Display	LED & APP & Web								
Scalability	2								
Surge Protection Level	Type II (DC), Type II (AC)								
Over Voltage Category	OVC II (DC), OVC III (AC)								
AFCI	Optional								
Protection	PV Reverse Polarity Protection / Battery Reverse Polarity Protection / Anti-islanding Protection / AC Overcurrent Protection / AC Overvoltage Protection								

Low-Voltage Residential Battery

BATTERY

BLF-SR05/10/15/20/25/30/35

Model	BLF-SR05	BLF-SR10	BLF-SR15	BLF-SR20	BLF-SR25	BLF-SR30	BLF-SR35
Technical Properties	 1 PACK	 2 PACK	 3 PACK	 4 PACK	 5 PACK	 6 PACK	 7 PACK
Component	1 × Base Stack + 1 × Module	1 × Base Stack + 2 × Module	1 × Base Stack + 3 × Modules	2 × Base Stack + 4 × Modules + 1 × Parallel Box + 1 × Adapter Box	2 × Base Stack + 5 × Modules + 1 × Parallel Box + 1 × Adapter Box	2 × Base Stack + 6 × Modules + 1 × Parallel Box + 1 × Adapter Box	2 × Base Stack + 7 × Modules + 1 × Parallel Box + 1 × Adapter Box
Cell Type	LFP						
Nominal Voltage	51.2 V						
Operating Voltage Range	43.2-57.6V						
Battery Pack Module	51.2 V, 100 Ah, 5.12 kWh						
Pack Number	1	2	3	4	5	6	7
Total Energy	5.12 kWh	10.24 kWh	15.36 kWh	20.48 kWh	25.6 kWh	30.72 kWh	35.8 kWh
Rated Capacity	100 Ah	200 Ah	300 Ah	400 Ah	500 Ah	600 Ah	700 Ah
Max. Power	5.8 kW	7.68 kW	7.68 kW	7.68 kW	7.68 kW	7.68 kW	7.68 kW
Depth of Discharge	90%						
Max. Charge/Discharge Current	85 A / 100 A	150 A / 150 A	150 A / 150 A	150 A / 150 A	150 A / 150 A	150 A / 150 A	150 A / 150 A
Operating Temperature	Charge: 0°C to 60°C; Discharge: -10°C to 60°C						
Operating Humidity	5%-95%						
Storage Temperature	-20°C to +60°C						
Operating Altitude	<4000 m						
Communication	RS485 / CAN						
Cooling Type	Natural Cooling						
Ingress Protection	IP65						
Installation Location	Wall-mounted / Ground-mounted						
Cycle Life	6000 Cycles[2]						
Dimensions (W × D × H)	680 × 198 × 552.2 mm	680 × 198 × 983.4 mm	680 × 198 × 1414.6 mm	680 × 198 × 1183.4 mm + 680 × 198 × 1091.9 mm	680 × 198 × 1614.6 mm + 680 × 198 × 1091.9 mm	680 × 198 × 1614.6 mm + 680 × 198 × 1523.1 mm	680 × 198 × 1614.6 mm + 680 × 198 × 1954.3 mm
Weight	58.5 kg	109 kg	159.5 kg	227.4 kg	277.9 kg	328.4 kg	378.9 kg

[1]: Systems with 1 inverter and >3 battery packs require a parallel box and dedicated parallel terminals.

[2]: Test conditions: 0.5C Charge/0.5C Discharge, @25°C, 90% DOD, 70% EOL.