

IntegOne for Home

Energy Storage System

HSH-3/3.6/4.2/4.6/5/6K-5/10kWh



Maximized Energy Efficiency

- 20A PV Input Current: Optimized for high efficiency solar panels
- Dual MPPT: Extracts maximum power from two solar array orientations
- 80V Low Voltage StartUp: Enables early start and late shutdown for extended daily operation.
- High Charging Efficiency: 30A battery charging/discharging current

Enhanced Energy Independence

- Modular Design: Expandable battery capacity up to 10 kWh
- Fast Grid Switching: Smooth transition to backup power ensures continuity during power outages
- Black Start & OffGrid Ready: Ensures uninterrupted power supply with smart grid isolation
- Smart Load Control: Supports heat pumps, EV charging, and other smart loads

Simplified Installation & Maintenance

- Modular Inverter Battery Integration: Combines inverter, battery, and BMS for seamless energy management
- Horizontal Layout: Simplifies installation and enhances heat dissipation
- IP65 Rating: Suitable for indoor and outdoor installation

Intelligent Energy Dynamics

- Remote Monitoring & Upgrade: Allows seamless system updates via Solinteg Cloud
- OLED Display & App Control: Simplifies operation and configuration
- I-light Indicator: Realtime system status at a glance
- SuperToU Station Management: Supports flexible and customizable operation modes

IntegOne for Home Energy Storage System



System Model		HSH-3K	HSH-3.6K	HSH-4.2K	HSH-4.6K	HSH-5K	HSH-6K
Rated AC Output Power	[kW]	3.0	3.6	4.2	4.6	5.0	6.0
Battery Nominal Capacity	[kWh]	5.12	5.12	5.12	5.12	5.12	5.12
Number of Batteries		1	1	1	1	1	1
Max. Charge / Discharge Power	[kW]	3.0	3.6	4.2	4.6	5.0	6.0
Battery Type		LiFePO4					
Ingress Protection		IP65					
Weight	[KG]	64.9	66.9				
Dimensions	[W×H×D mm]	1125×400×197					
Battery Expansion		2pcs in Parallel(5kWh+5kWh)					
Inverter Model		M2HS-3K-30	M2HS-3.6K-30	M2HS-4.2K-30	M2HS-4.6K-30	M2HS-5K-30	M2HS-6K-30
PV Input							
Start-up Voltage	[V]	80	80	80	80	80	80
Max. PV Input Voltage *	[V]	580*	580*	580*	580*	580*	580*
Operating Voltage Range *	[V]	70-550*	70-550*	70-550*	70-550*	70-550*	70-550*
Rated Power MPP Voltage Range	[V]	160-500	95-500	110-500	120-500	130-500	160-500
No. of MPP trackers		1	2	2	2	2	2
Max. PV Input Current	[A]	20	20/20	20/20	20/20	20/20	20/20
Battery Side							
Battery Voltage Range	[V]	80-450					
Max. Charging/Discharge Current	[A]	30					
Grid Side							
Rated Output Power	[kW]	3.0	3.6	4.2	4.6	5.0	6.0
Max. Output Apparent Power	[kVA]	3.0	3.6	4.2	4.6	5.0	6.0
Max. Input Apparent Power **	[kVA]	6.0	7.2	8.4	9.2	10.0	10.0
Rated Output Voltage	[V]	L/N/PE; 220/230/240					
Rated Output Frequency	[Hz]	50/60					
Rated Output Current	[A]	13.6/13/12.5	16.4/15.7/15	19.1/18.3/17.5	20.9/20/19.2	22.7/21.7/20.8	27.3/26.1/25
Max. Output Current	[A]	13.6	16.4	19.1	20.9	22.7	27.3
Max. Input Current	[A]	27.3	32.7	38.2	41.8	45.5	45.5
Power Factor		0.8 leading ...0.8 lagging					
Back-up Side							
Rated Output Power	[kW]	3.0	3.6	4.2	4.6	5.0	6.0
Max. Output Apparent Power	[kVA]	3.0	3.6	4.2	4.6	5.0	6.0
Rated Output Current	[A]	13.6/13/12.5	16.4/15.7/15	19.1/18.3/17.5	20.9/20/19.2	22.7/21.7/20.8	27.3/26.1/25
Peak output apparent power	[kVA]	5.8 @10s	5.8 @10s	8.4 @10s	8.4 @10s	8.4 @10s	8.4 @10s
On/Off-grid Switching Time		<10ms					
Efficiency							
Max. Efficiency		97.6%					
European Efficiency		97.1%					
General Data							
Over Voltage Category		PV: II; Main: III					
Dimensions	[W×H×D mm]	445×400×197					
Weight	[KG]	18	20				
Ingress Protection		IP65					
Operating Temperature Range	[°C]	-30~60					
Cooling		Natural Convection					
Display		OLED & LED					
Communication		CAN, RS485, WiFi/LAN (Optional)					
Battery Model		EBA-B5K1					
Nominal Capacity	[kWh]	5.12					
Rated Capacity	[Ah]	20					
Voltage Range	[V]	200-292					
Rated Voltage	[V]	256					
Usable Energy	[kWh]	4.60					
Charge/Discharge-Rate		1C (Max) / 1C (Steady)					
Cooling		Natural Convection					
Ingress Protection		IP65					
Cycle Life		6000 (@ 25°C)					
Operating Temperature Range	[°C]	-20~55					
Dimensions	[W×H×D mm]	680×400×197					

* PV Max. Input voltage is 500V, otherwise inverter will be waiting;

** Max apparent power means the maximum power imported from the grid used to satisfy the backup loads and charge the battery;