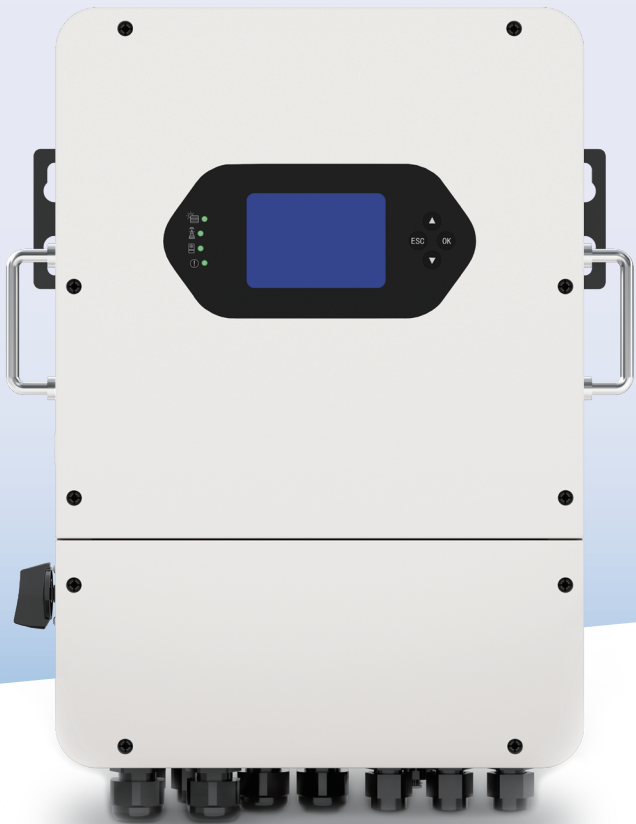


Single Phase

Hybrid Inverter

6K / 8K / 10K / 12K



1. Key Feature



Parallel Operation

Supports parallel operation of up to 12 units, enabling flexible system expansion for small and medium-sized commercial and industrial energy storage applications.



Fast Switching

Grid-to-off-grid switching time of less than 10 ms, ensuring uninterrupted power supply for critical loads and sensitive equipment.



Flexible Charging Strategy

Supports configuration of up to six battery charging time periods with adjustable cut-off thresholds for optimized energy management.



High-Power Charging & Discharging

Supports maximum power charging and discharging modes, delivering strong performance for high-demand energy storage scenarios.



Diesel Generator Compatibility

Compatible with diesel generators for battery charging and direct load power supply, enhancing overall system reliability.



High Efficiency & Intelligent Cooling

Combines high system efficiency with intelligent air-cooling design to reduce thermal stress and extend product service life.



Smart Communication & Monitoring

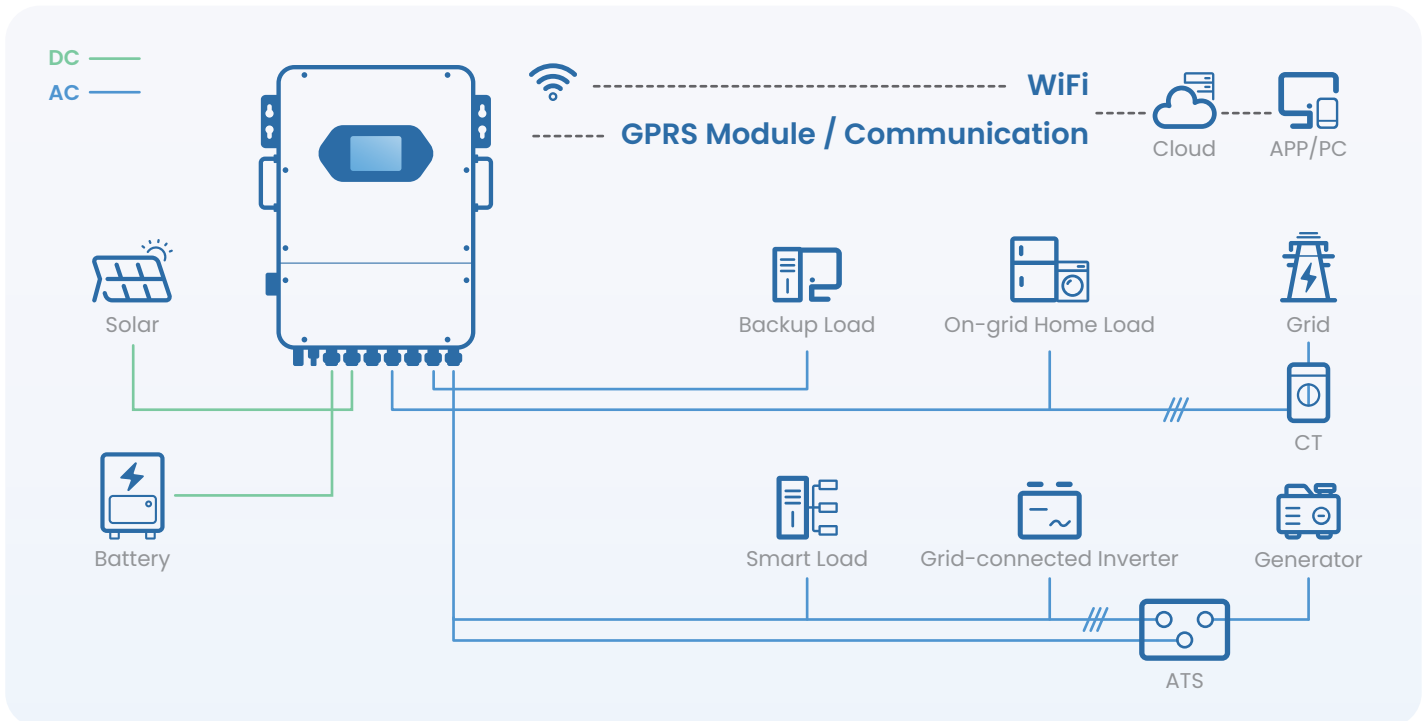
Integrated RS485, CAN, and WiFi interfaces enable real-time monitoring and system management via App or PC cloud platforms.



Intelligent Load Management

Supports smart load management, CT sensing, and ATS functions, with an optional GPRS module for remote connectivity and control.

2. Connection Diagram



3. Specifications

Model	6K	8K	10K	12K
Battery Input Data				
Battery Type	Lead-acid or Li-ion			
Battery Voltage Range(V)	40~60			
Max. Charging Current(A)	135	190	220	250
Max. Discharging Current(A)	135	190	220	250
External Temperature Sensor	Yes			
PV String Input Data				
Max DC Input Power(W)	9000	12000	13000	15600
PV Input Voltage(V)	370V(125V-500V)			
MPPT Range(V)	150-425V			
Full Load DC Voltage Range	300~425V			
Start-up Voltage(V)	125V			
PV Input Current(A)	18+18	26+26	26+26+26	26+26+26
Max.PV Isc(A)	27+27	34+34	34+34+34	34+34+34
No.of MPPT Trackers	2	2	3	3
Number of Strings Per MPPT Tracker	1+1	1+1	1+1+1	1+1+1
AC Input/Output Data				
Rated AC Output and UPS Power(W)	6000	8000	10000	12000
Max. AC Output Power(VA)	6000	8000	11000	13200
Peak Power(off grid)	Double Rated Power, 10S			
AC Input/Output Rated Current(A)	27.3/26.1	36.4/34.8	45.5/43.5	54.6/52.2
Max, AC Input/Output Current(A)	30/28.7	40/38.3	50/47.9	60/57.4
Max, Continuous AC Pass through(A)	40	50	60	70
Power Factor	0.8 Leading to 0.8 Lagging			
Output Frequency and Voltage	50/60Hz; 220/230Vac		100/200Vac; 110/220Vac.115/230Vac; 120/240Vac	
Grid Type	Single Phase			
Total Harmonic Distortion (THD)	<3% (Of nominal power)			
DC Current Injection	<0.5% In			
Efficiency				
Max. Efficiency	97.6%			
Euro Efficiency	96.5%			
MPPT Efficiency	>99%			
Certifications and Standards				
Grid Regulation	IEC62116, IEC61727			
EMC/Safety Regulation	EN61000-6-2/-4; EN62109-1, EN62109-2			
General Data				
Operating Temperature Range(°C)	-40-60°C, >55°C Derating			
Cooling	Smart cooling			
Noise(dB)	<50 dB			
Communication with BMS	RS485; CAN			
Monitoring Mode	WiFi+APP			
Protection Degree	IP65			
Installation Style	Wall-mounted			
Warranty	5 Years (10 Years Optional)			
Weight(kg)	22	25.5	36	
Gross Weight(kg)	26	29	39	
Cabinet Size(mm)(L x W x H) (Excluding connectors and brackets)	490x340x256.22	560x340x257	629.9x430x256	
Packing Parameters				
Outer Box Dimensions	680x440x340(mm)		760x530x340(mm)	
Pallet Dimensions	900x700x120(mm)		1100x800x120(mm)	
Pallet 20GP	6 layers:240pcs;7160kg		6 layers:168pcs;6860kg	
Pallet 40GP	6 layers:516pcs;15394kg		6 layers:360pcs;14700kg	
Pallet 40HQ	7 layers:602pcs;17888kg		7 layers:420pcs;17100kg	
Without Pallet 20GP	6 layers:301pcs;8729kg		6 layers:238pcs;9520kg	
Without Pallet 40GP	6 layers:623pcs;18067kg		6 layers:483pcs;19320kg	
Without Pallet 40HQ	7 layers:623pcs;18067kg		7 layers:483pcs;19320kg	