



# **All-In-One (HV) (5-20) kW**

**Smarter Power Better Life**



# ALL-IN-ONE 5-20kW

## Compared With Separate Installation



## All-in-one after-sales service

- 10-year warranty. Replace new machines instead of repairing.\*
- No need to worry about after-sales between inverters and batteries of different brands.

\* For critical parts quality issues.

Saves **20%** space

- Integrated humanized design, removed redundant cables.
- Adds points to beauty and attractiveness.



**20%**  
reduction in installation time

- Stack installation with Plug & Play connection.
- Makes the installation process time-saving, cost-effective and worry-free.

**Integrated AC Charger,  
Plug & Play**

- Charging electric vehicles with clean energy, effectively save charging costs.



# All-in-one System Single Phase (HV) (5-10) kW

Type Designation	All-in-one sys-5kW-SH	All-in-one sys-6kW-SH	All-in-one sys-8kW-SH	All-in-one sys-10kW-SH
PV (input)				
Max. recommended PV array power [Wp]	12000	13000	16000	20000
Max. PV input voltage [V]			600	
Min. operating PV voltage [V]			40	
Start-up input voltage [V]			50	
Rated PV input voltage [V]			360	
MPPT voltage range [V]		40-560		
No. of MPPT/Strings per MPPT	2 (1/1)		4 (1/1/1/1)	
Max. PV input current [A]	32 (16/16)		64 (16/16/16/16)	
Max. DC short-circuit current [A]	40 (20/20)		80 (20/20/20/20)	
Max. current for each input connector [A]		20		
Battery				
Battery type	Li-ion battery			
Max. charge/discharge current [A]	30/30		50/50	
Nominal voltage range [V]	192-512 (64 per module)			
Nominal capacity range	9.6 kWh-25.6 kWh (3.2 kWh/50 Ah per module)			
Number of connectable modules	3-8 modules			
Backup Output (On-Grid Mode)				
Rated output power [W]	6000		14500	
Rated output current [A]	27		63	
Backup Output (Off-Grid Mode)				
Rated output power	5000 W / 5000 VA	6000 W / 6000 VA	8000 W/8000 VA	9999 W/9999 VA
Peak output power	8400 VA, 10s		13680 VA, 10s	
Backup switching time [ms]	<10			
Rated voltage [V]	220/230/240 (±2%)			
Frequency range [Hz]	50/60 (±0.5%)			
Total harmonic distortion (THDv, rated power, linear load) [%]	≤2			
Grid (input/output)				
Max. AC input power from grid [VA]	12000	13000	14500	
Rated AC output power [W]	5000	6000	8000	9999
Max. AC output power [VA]	5000	6000	8000	9999
Rated AC output current (at 230V) [A]	21.8	26.1	36.4	45.5
Max. AC output current [A]	22.8	27.3	36.4	45.5
Rated AC voltage [V]	220/230/240			
AC voltage range [V]	154-276			
Rated grid frequency [Hz]	50/60			
Grid frequency range [Hz]	45-55/55-65			
Total harmonic distortion (THDi, rated power) [%]	<3			
Power factor at rated power	> 0.99			
Adjustable power factor	adjustable 0.8.leading to 0.8 lagging			
Efficiency				
Max. efficiency/European efficiency [%]	97.70/97.30		97.40/96.80	97.50/97.10
Protection & Function				
Surge protection	DC type II/AC type II			
Gird monitoring	Yes			
DC reverse polarity protection	Yes			
Battery input reverse polarity protection	Yes			
AC short-circuit protection	Yes			
Leakage current protection	Yes			
DC switch (PV)	Yes			
DC fuse (Battery)	Yes			
General Data				
Topology (PV/Battery)	Transformerless			
Degree of protection	IP65			
Dimensions (W*H*D) [mm]	640*1012*360 (With 3 Battery modules)		640*360*1247 (With 3 Battery modules)	
Weight [kg]	<132 (With 3 Battery modules)		<157 (With 3 Battery modules)	
Mounting method	Floor-standing			
Operating ambient temperature range [°C]	-25-60			
Storage temperature [°C]	-20-45 (≤1 Month)/-20-25 (≤6 Months)			
Allowable relative humidity range [%]	5-95			
Cooling method	Natural convection			
Max. operating altitude [m]	2000			
Display	LED			
Communication	RS485/CAN/WLAN			
DI/DO	1*DI/1*DO/DRM		1*DI/2*DO/DRM	
DC connection type	MC4			
Battery connection type	MC4			
AC connection type	Plug and play connector			

Full Range From Power Generation,  
Transmission, Distribution To

## Energy Storage

### 32 years

With 32 years of experience,  
specialized in equipment manufacturing  
and engineering services

### Public Co.

Founded in 1993  
Stock listed in 2004 (SZSE002028)

### US\$3.2 Billion

2024 Turnover

### 1400+

1411 Qualified engineers are  
the driving force behind the  
exceptional R&D progress

### TOP 3

**Sieyuan**思源电气  
Electrical Equip. Manufacturer

### 22

22 Manufacturing bases

### 100+

With 10,000+ employees  
in 100+ countries and regions

### 1,000kV

Full range product: 10kV -1,000kV

**esGrid**  
Grid-level energy storage

Sieyuan Utility Scale BESS

 **swatten**  
Powered by Sieyuan

C&I and Residential BESS



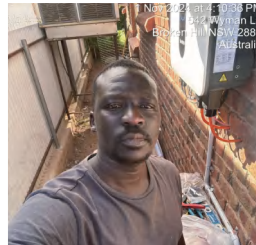




## Swatten Europe Case



## Swatten APAC Case



## Compatible Battery Brand

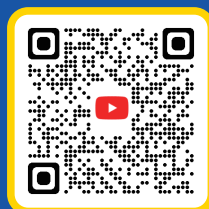
\* For detailed list please contact our technical team



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