



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

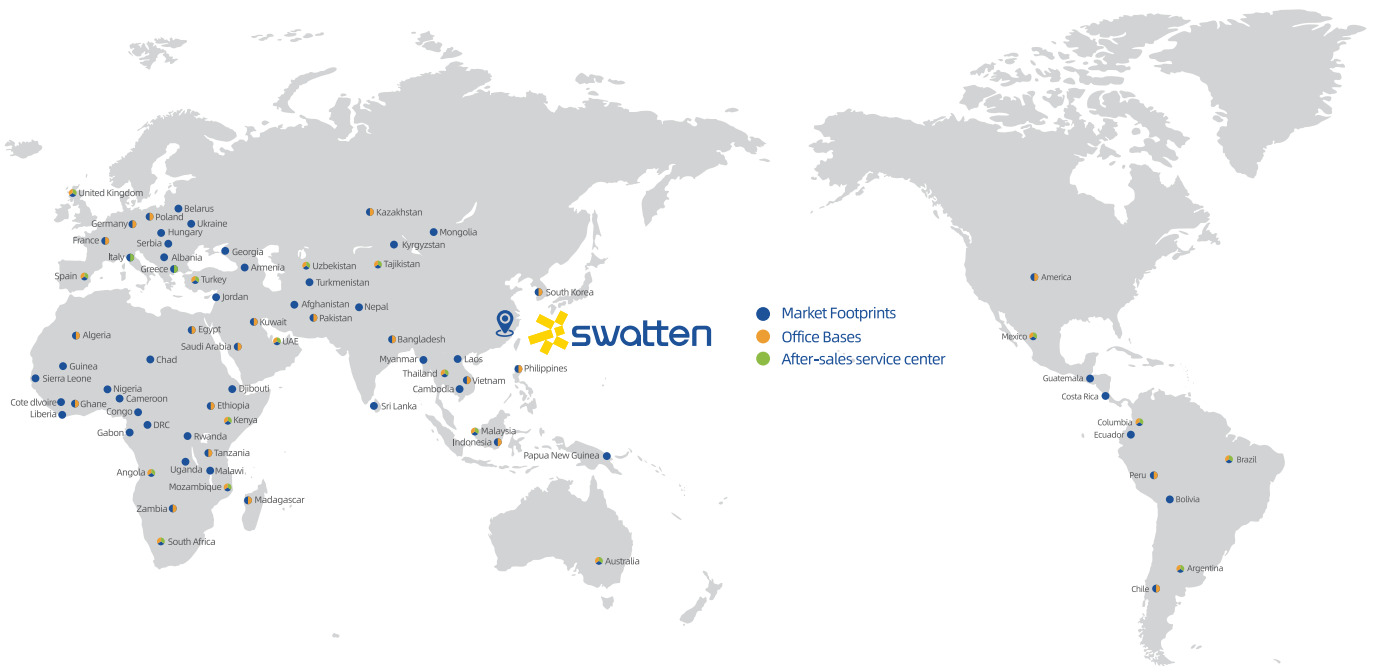
Sieyuan Utility Scale BESS

 **swatten**
Powered by Sieyuan

C&I and Residential BESS



Global Marketing & Service Layout



Our Global Clients





Swatten Europe Case



Swatten APAC Case



Compatible Battery Brand

* For detailed list please contact our technical team



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