



Single Phase Hybrid Inverter (HV) (8/10) kW

FROM GRID TO HOME



KEY FEATURES



50v

Low starting voltage

200%

Max. DC input oversizing

4MPPT

Max. 16A DC input

10kw

Max. charge/discharge power

14.5kw

Rated output power

4000m

Max. operating altitude



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Type Designation	SiH-8kW-SH		SiH-10kW-SH	
PV (input)				
Max. recommended PV array power [Wp]	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			4 (1/1/1/1)	
Max. PV input current [A]			64 (16/16/16/16)	
Max. DC short-circuit current [A]			80 (20/20/20/20)	
Max. current for each input connector [A]			20	
Battery (input/output)				
Battery type			LiFePO4 Prismatic Cell	
Battery voltage range [V]			80-460	
Max. charge/discharge current** [A]			50/50	
Max. charge/discharge power [W]			10000/10000	
Backup Output (On-Grid Mode)				
Rated output power [W]			14500	
Rated output current [A]			63	
Backup Output (Off-Grid Mode)				
Rated output power	8000 W/8000 VA		9999 W/9999 VA	
Peak output power***			13680 VA, 10s	
Backup switching time [ms]			<10	
Rated voltage [V]			220/230/240 (±2 %)	
Frequency range [Hz]			50/60 (±2 %)	
Total harmonic distortion (THDv, rated power, linear load) [%]			≤2	
Grid (input/output)				
Max. AC input power from grid [VA]			14500	
Rated AC output power [W]	8000		9999	
Max. AC output power [VA]	8000		9999	
Max. AC output current [A]	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) [%]			<3	
Power factor at rated power			>0.99	
Adjustable power factor			adj.0.8.leading to 0.8 lagging	
Efficiency				
Max. efficiency/European efficiency [%]	97.40/96.80		97.50/97.10	
Protection & Function				
Surge protection			DC type II /AC type II	
Grid 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]			599*490*177	
Weight [kg]			≤29	
Mounting method			Wall-mounting bracket	
Operating ambient temperature range [°c]			-25-60	
Allowable relative humidity range [%]			0-100	
Cooling method			Natural convection	
Max. operating altitude [m]			4000	
Display			LED	
Communication			RS485/CAN/WLAN	
DI/DO			1*DI / 2*DO/ DRM	
DC connection type			MC4	
Battery connection type			MC4	
AC connection type			Screws & Fasteners	

* Input voltage exceeding the MPPT operating voltage range triggers inverter protection

** Depending on the connected battery

*** Can be reached only if PV and battery power is sufficient

About Us

Full Range From Power Generation,
Transmission, Distribution To

Energy Storage

33 years

With 33 years of experience,
specialized in equipment manufacturing
and engineering services

22

22 Manufacturing bases

Public Co.

Founded in 1993
Stock listed in 2004 (SZSE002028)

100+

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

US\$5.0 Billion

2025 Turnover

1,000kV

Full range product: 10kV -1,000kV

1400+

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

esGrid

Grid-level energy storage

Sieyuan Utility Scale BESS

TOP 3

Sieyuan 思源电气
Electrical Equip. Manufacturer

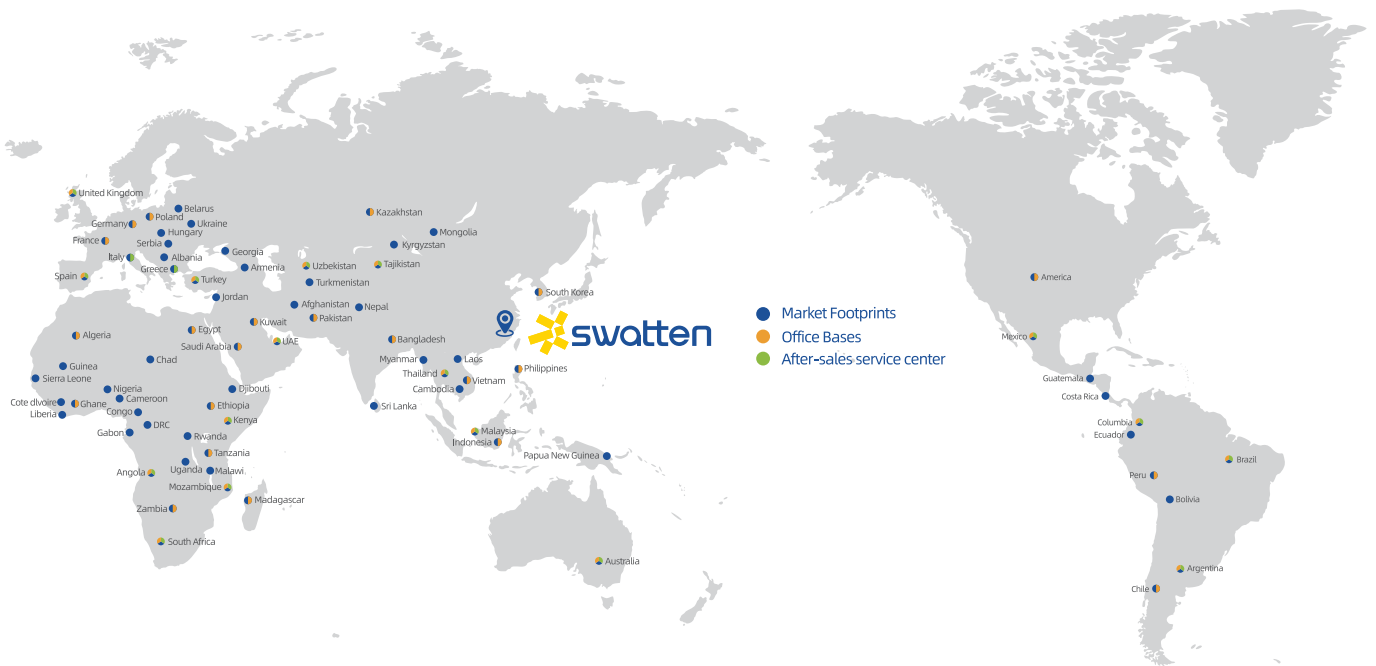
 **swatten**
Powered by Sieyuan

C&I and Residential BESS

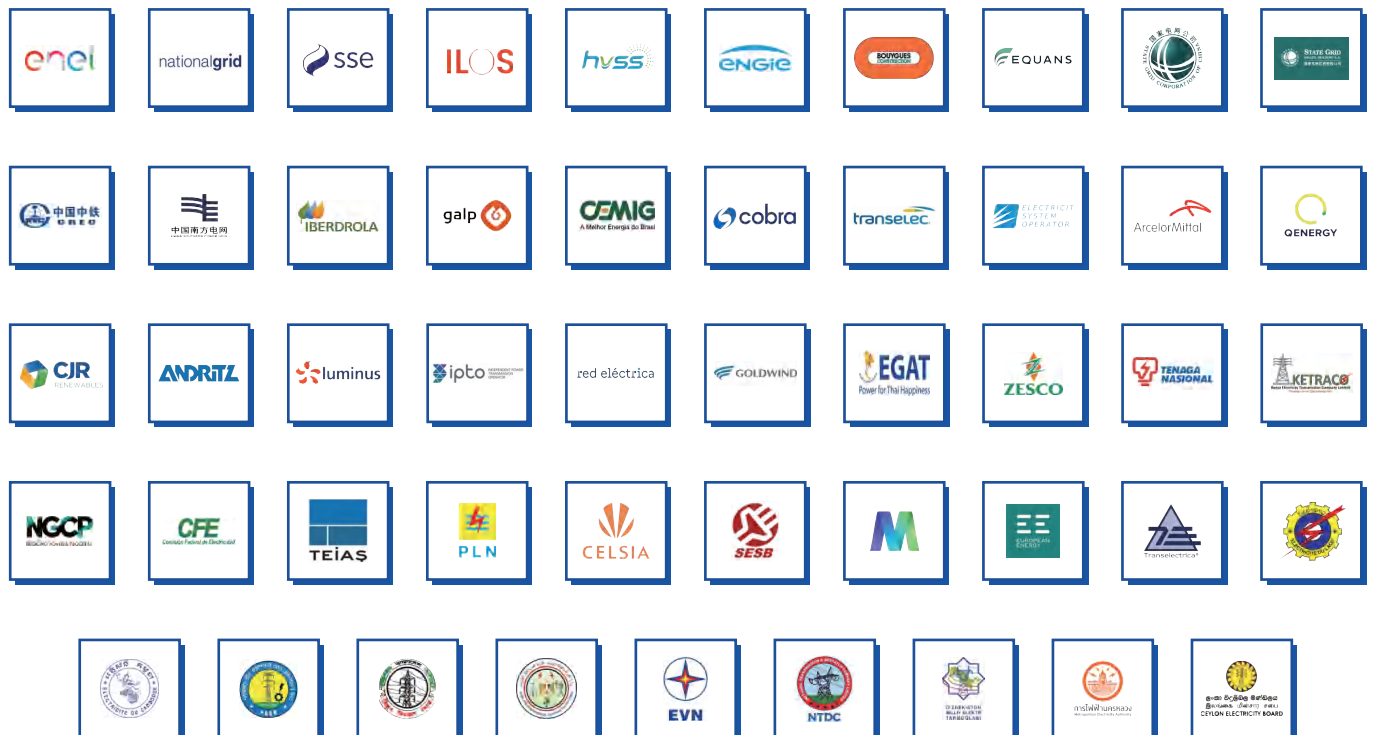




Global Marketing & Service Layout



Our Global Clients





Swatten Europe Case



Swatten APAC Case



Compatible Battery Brand

* For detailed list please contact our technical team



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