



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

FROM GRID TO HOME

Full Range From Power Generation, Transmission, Distribution To

Energy Storage

33 years

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

Public Co.

Founded in 1993
Stock listed in 2004 (SZSE002028)

US\$5.0 Billion

2025 Turnover

TOP 3

Sieyuan 思源电气
Electrical Equip. Manufacturer

1,000kV

Full range product: 10kV -1,000kV

1400+

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

100+

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

22

22 Manufacturing bases



swatten
Powered by Sieyuan

C&I and Residential BESS

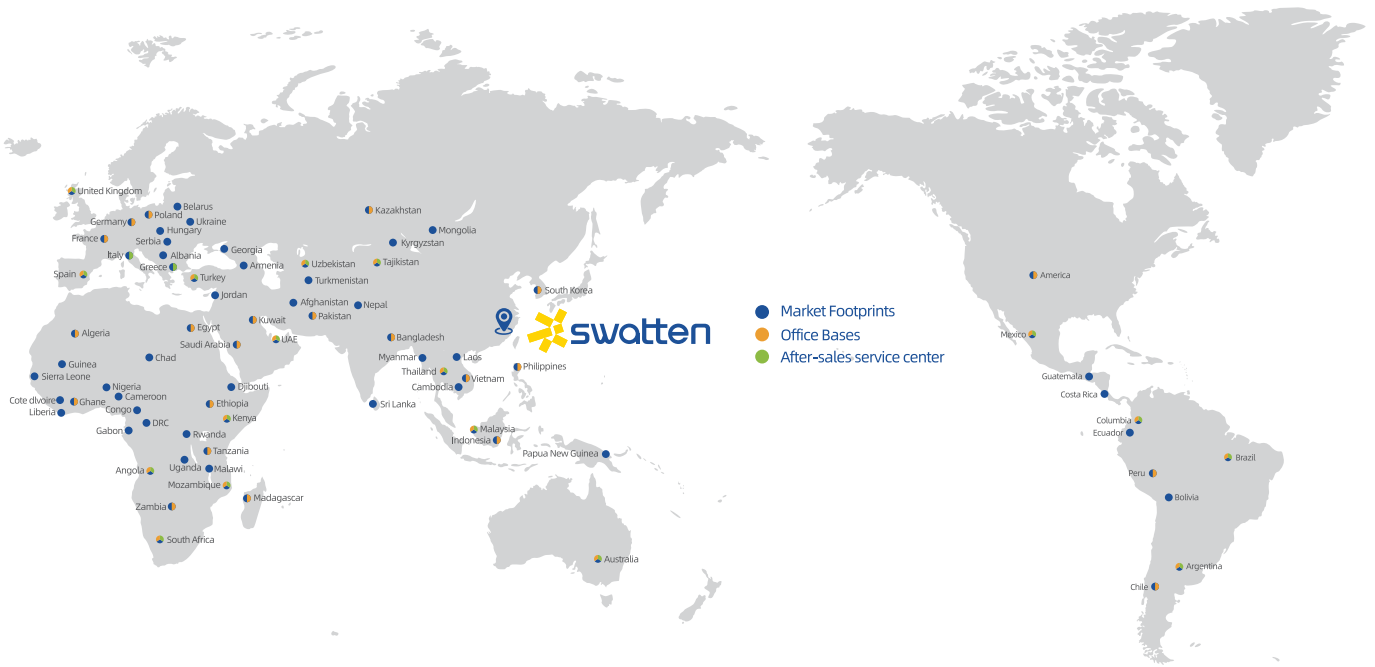
esGrid
Grid-level energy storage

Sieyuan Utility Scale BESS





Global Marketing & Service Layout



Our Global Clients





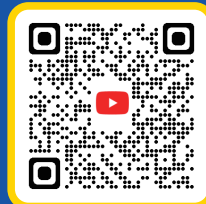
Swatten's Global Cases



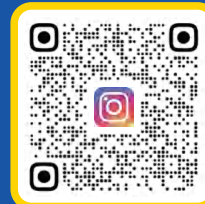
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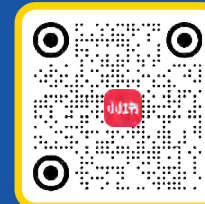
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