swatten
Powered by Sieyuan

BNEF Tier 1
Energy Storage Manufacturer



Single Phase Hybrid Inverter (LV) (3.6-6) kW

FROM GRID TO HOME

Shanghai Sieyuan Watten Technology Co., Ltd.
Member of Sieyuan Electric Co., Ltd.

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KEY FEATURES



27V
Low starting voltage

240%
DC input oversizing

100A
Max. power charge and discharge current

<10ms
Off-grid switching

100%
Whole-home backup

4000m
Max. operating altitude



Single Phase Hybrid Inverter (LV) (3.6-6) kW

Type Designation	SiH-3.6kW-SL	SiH-5kW-SL	SiH-6kW-SL
PV (input)			
Max. recommended PV array power [Wp]	8700	10000	11000
Max. PV input voltage* [V]	600		
Rated PV input voltage [V]	360		
Start-up input voltage [V]	50		
MPPT voltage range [V]	40-560		
No. of MPPT/Strings per MPPT	2 (1/1)		
Max. PV input current [A]	16		
Max. DC short-circuit current [A]	20		
Battery (input/output)			
Battery type	LiFePO4 Prismatic Cell		
Battery voltage range [V]	27-60		
Max. charge/discharge current** [A]	100/100		
Max. charge/discharge power [W]	5000/5000		
Backup Output (On-Grid Mode)			
Rated output power [W]	6000		
Rated output current [A]	27		
Backup Output (Off-Grid Mode)			
Rated output power	3680W/3680VA	5000W/5000VA	6000W/6000VA
Peak output power***	8400VA,10s		
Backup switching time [ms]	<10		
Rated voltage [V]	220/230/240 (±2%)		
Frequency range [Hz]	50/60 (±5%)		
Total harmonic distortion (THDv, rated power, linear load) [%]	≤2		
Grid (input/output)			
Max. AC power from grid [VA]	8700	10000	11000
Rated AC output power [W]	3680	5000	6000
Max. AC output power [VA]	3680	5000	6000
Max. AC output current [A]	16.7	22.8	27.3
Rated AC voltage [V]	220/230/240 (±2%)		
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/ Adjustable power factor	> 0.99/0.8.leading to 0.8 lagging		
Efficiency			
Max. efficiency/European efficiency [%]	97.50/97.00	97.70/97.30	
Protection & Function			
Surge protection	Type II, DC and AC		
Grid monitoring	Yes		
DC reverse polarity protection	Yes		
Battery input reverse polarity protection	Yes		
Insulation monitoring	Yes		
AC short-circuit protection	Yes		
Residual current protection	Yes		
DC switch (PV)	Yes		
Over-heat protection	Yes		
AFCI	OPT		
General Data			
Topology (PV/Battery)	Transformerless		
Degree of protection	IP65		
Dimensions (W*H*D) [mm]	600*365*194		
Weight [kg]	≤23.5		
Mounting method	Wall-mounting bracket		
Operating ambient temperature range [℃]	-25-60		
Allowable relative humidity range (Non-condensing) [%]	0-100		
Cooling method	Natural convection		
Max. operating altitude [m]	4000		
Display	LED		
Communication	RS485/CAN/WLAN		
DI/DO	1*DI/1*DO/DRM		
DC connection type	MC4		
Battery connection type	Screws & Fasteners		
AC connection type	Plug and play connector		

* 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

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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



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C&I and Residential BESS

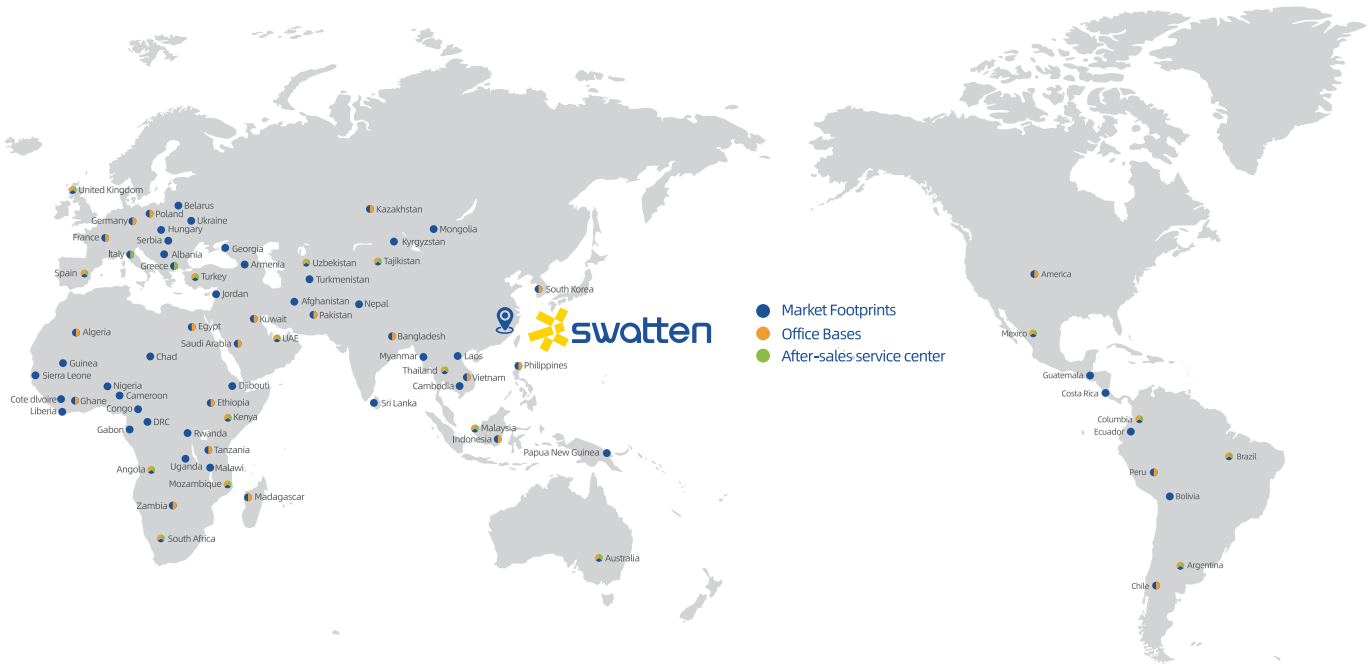


esGrid
Grid-level energy storage

Sieyuan Utility Scale BESS



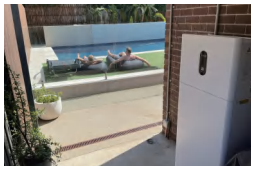
Global Marketing & Service Layout



Our Global Clients

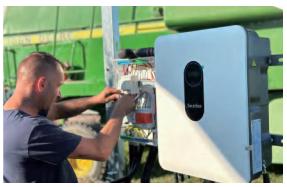
Swatten's Global Cases























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