



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

FROM GRID TO HOME



KEY FEATURES



50v

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



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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]	40-59				
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	5000W/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 (THDv, 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 [°C]	-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

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

Public Co.

Founded in 1993
Stock listed in 2004 (SZSE002028)

US\$5.0 Billion

2025 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

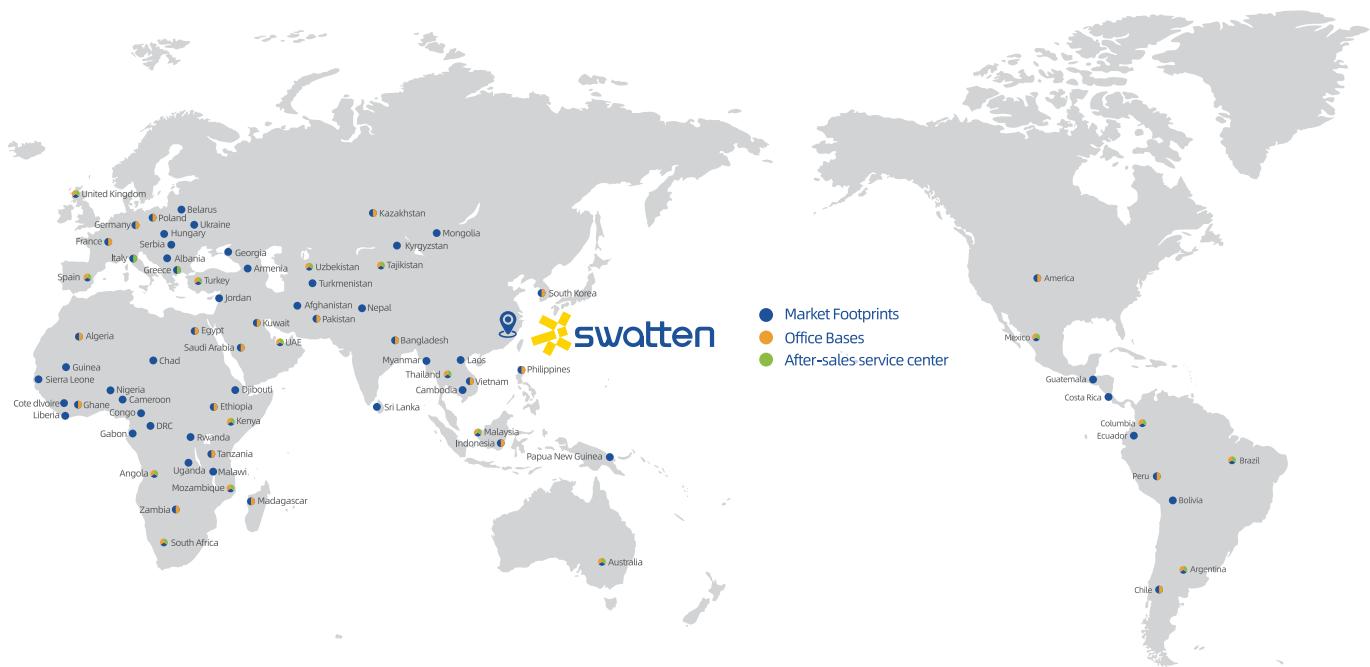
 **swatten**
Powered by Sieyuan

C&I and Residential BESS

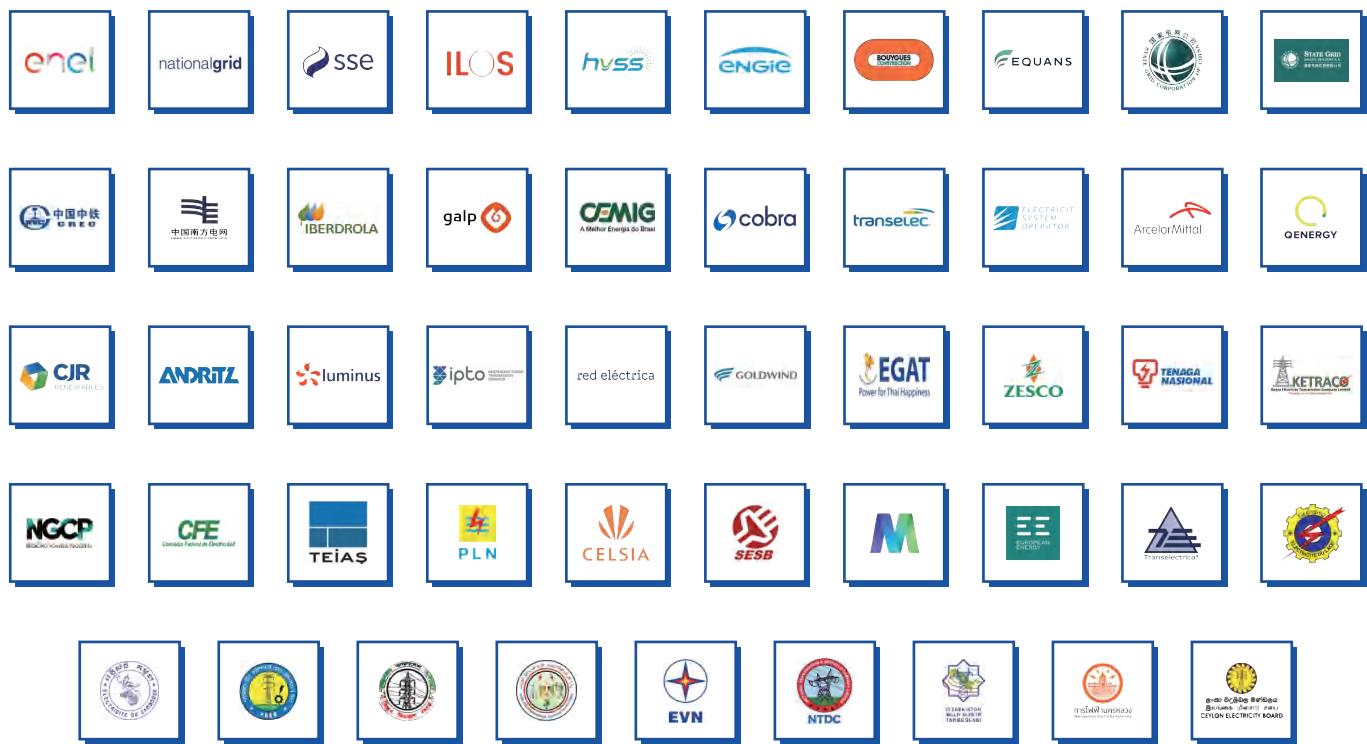




Global Marketing & Service Layout



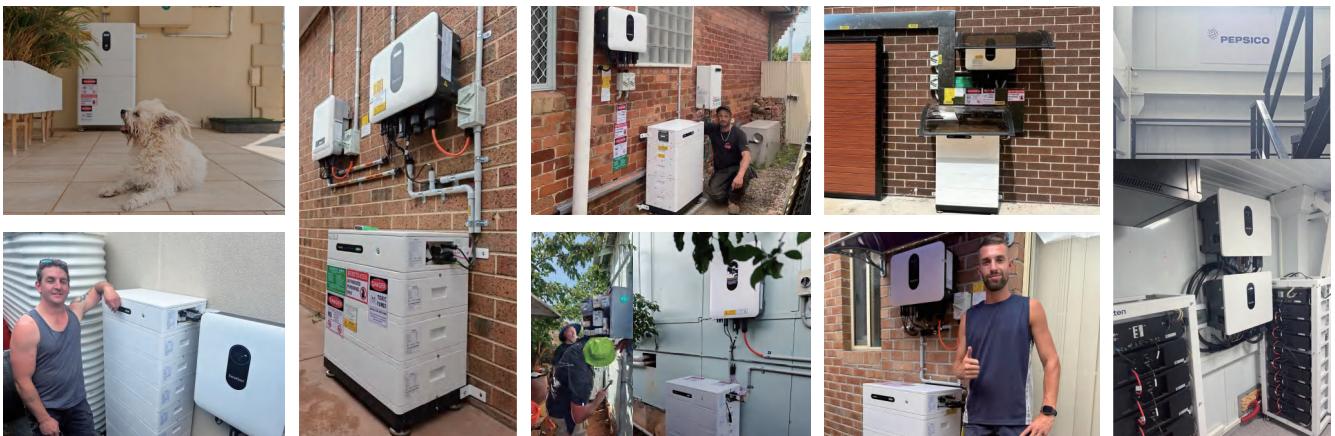
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Swatten Europe Case



Swatten APAC Case



Compatible Battery Brand

* For detailed list please contact our technical team



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