



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

Smarter Power Better Life



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



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] | 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 (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 [°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

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

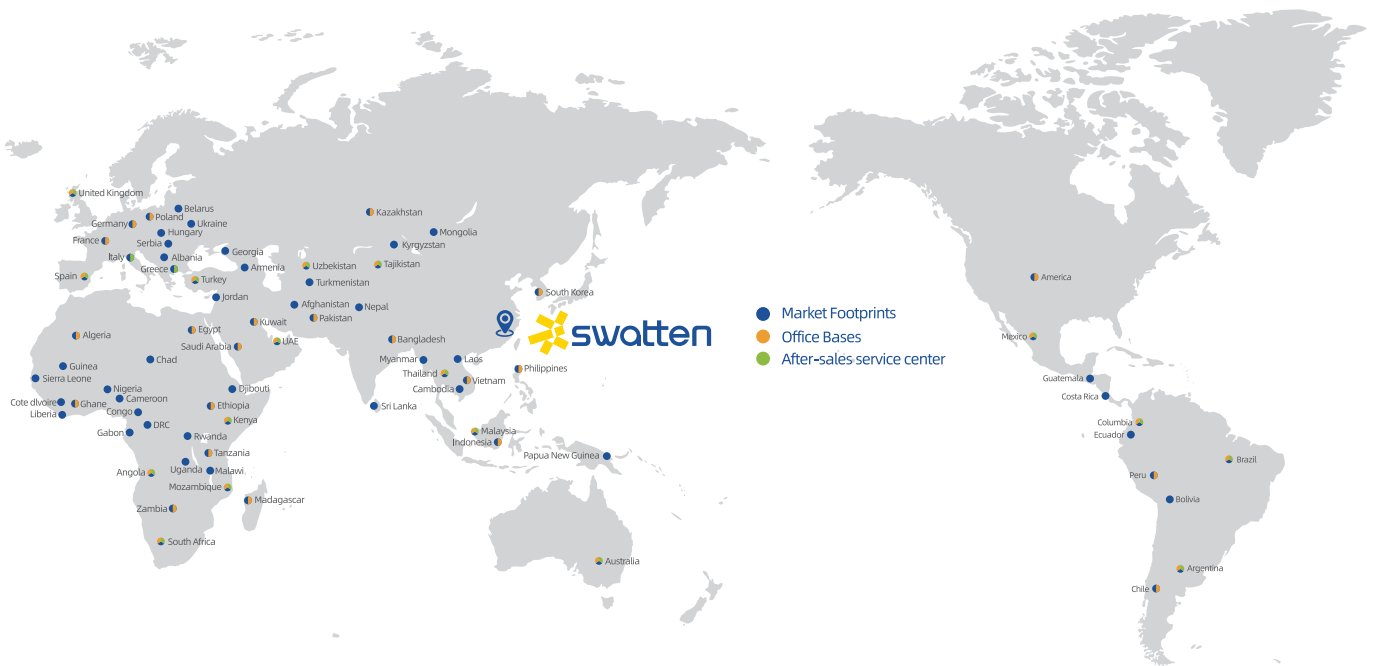
Sieyuan Utility Scale BESS

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Powered by Sieyuan

C&I and Residential BESS



Global Marketing & Service Layout



Our Global Clients





Swatten Europe Case



Swatten APAC Case



Compatible Battery Brand

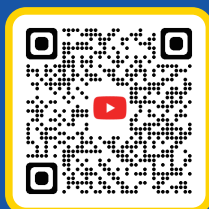
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