

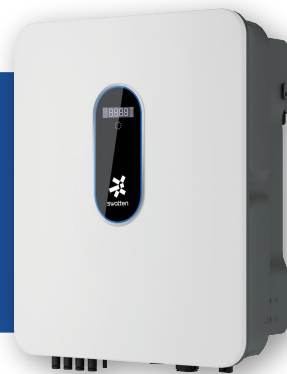


Three Phase Hybrid Inverter (HV) (5-10) kW

FROM GRID TO HOME



KEY FEATURES



100%

Unbalanced output at full power

Max 3

PV input

Fanless

Natural convection

<10ms

Off-grid switching

98.4%

Max. Efficiency

4000m

Max. operating altitude



Three Phase Hybrid Inverter (HV) (5-10) kW

| Type Designation | SiH-5kW-TH | SiH-6kW-TH | SiH-8kW-TH | SiH-10kW-TH |
|--|---|---------------------------|---------------|----------------|
| PV (input) | | | | |
| Max. recommended PV array power [Wp] | 7500 | 9000 | 12000 | 15000 |
| Max. PV input voltage* [V] | 1000 | | | |
| Rated PV input voltage [V] | 600 | | | |
| Start-up input voltage [V] | 180 | | | |
| MPPT voltage range [V] | 150-950 | | | |
| No. of MPPT/Strings per MPPT | 2 (1/1) | | | 2 (1/2) |
| Max. PV input current [A] | 32 (16/16) | | | 48 (16/32) |
| Max. DC short-circuit current [A] | 40 (20/20) | | | 60 (20/40) |
| Battery (input/output) | | | | |
| Battery type | LiFePO4 Prismatic Cell | | | |
| Battery voltage range [V] | 150-600 | | | |
| Max. charge/discharge current** [A] | 30/30 | | | |
| Max. charge/discharge power [W] | 7500/6000 | 9000/7200 | 10600/10600 | 10600/10600 |
| Backup (output) | | | | |
| Rated output power (off-grid mode) | 5000W/5000VA | 6000W/6000VA | 8000W/8000VA | 10000W/10000VA |
| Peak output power (off-grid mode)*** | 6000VA, 5min/10000VA, 10s | 7200VA, 5min/10000VA, 10s | 12000VA, 5min | 12000VA, 5min |
| Max. output power (on-grid mode) [VA] | 5500 | 6600 | 8800 | 11000 |
| Max. output current (on-grid mode) [A] | 8.4 | 10 | 13.3 | 16.7 |
| Backup switching time [ms] | <10 | | | |
| Rated voltage [V] | 3/N/PE, 220/380; 230/400; 240/415 (±2%) | | | |
| Frequency range [Hz] | 50/60 (±0.5%) | | | |
| Total harmonic distortion (THDv, rated power, linear load) [%] | ≤2 | | | |
| Grid (input/output) | | | | |
| Max. AC power from grid [VA] | 12500 | 15000 | 18600 | 20600 |
| Rated AC output power [W] | 5000 | 6000 | 8000 | 10000 |
| Max. AC output power [VA] | 5500 | 6600 | 8800 | 11000 |
| Max. AC output current [A] | 8.4 | 10 | 13.3 | 16.7 |
| Rated AC voltage [V] | 3/N/PE, 220/380; 230/400; 240/415 | | | |
| AC voltage range [V] | 270-480 | | | |
| 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 [%] | 98.00/97.20 | 98.20/97.50 | 98.40/97.90 | |
| Protection & Function | | | | |
| Surge protection | Type II, DC and AC | | | |
| Overvoltage category | II DC and III AC | | | |
| Protective class | Class I | | | |
| Grid monitoring | Yes | | | |
| DC reverse polarity protection | Yes | | | |
| Battery input reverse polarity protection | Yes | | | |
| Insulation monitoring (LV) | 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] | 450*550*185 | | | |
| Weight [kg] | 31 | | | |
| Mounting method | Wall-mounting bracket | | | |
| Operating ambient temperature range [°C] | -25-60 (Derating above 45) | | | |
| Allowable relative humidity range (Non-condensing) [%] | 0-100 | | | |
| Cooling method | Natural convection | | | |
| Max. operating altitude | 4000 | | | |
| Display | LED | | | |
| Communication | RS485/CAN/WLAN | | | |
| DI/DO | 1*DI/1*DO/DRM | | | |
| DC connection type | MC4 | | | |
| Battery connection type | MC4 | | | |
| 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

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

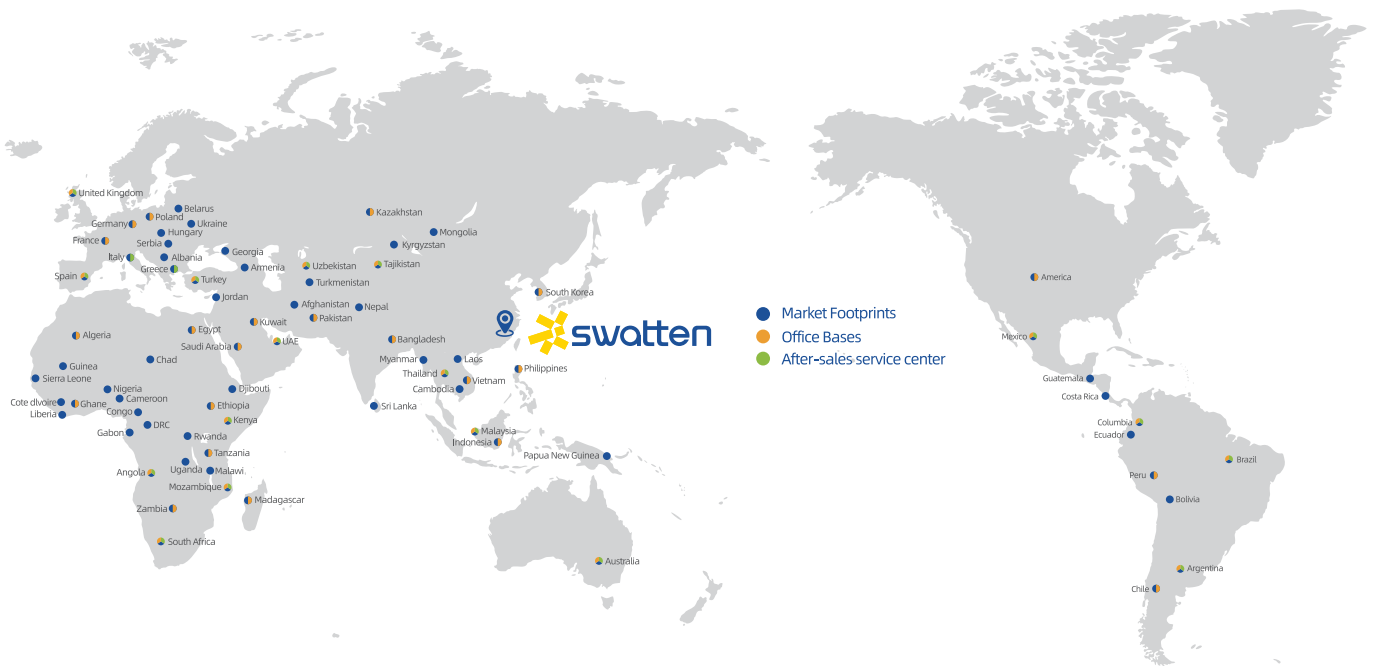
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C&I and Residential BESS





Global Marketing & Service Layout



Our Global Clients





Swatten Europe Case



Swatten APAC Case



Compatible Battery Brand

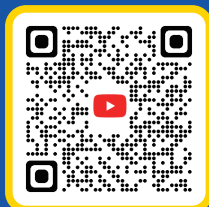
* For detailed list please contact our technical team



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