

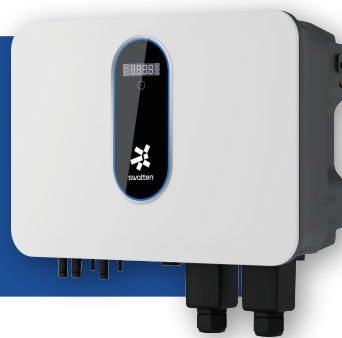


# Single Phase Hybrid Inverter (HV) (3-6) kW

**Smarter Power Better Life**



# KEY FEATURES



**50v**

Low starting voltage

**330%**

Max. DC input oversizing

**16A**

Max. DC input

**6.6kw**

Max. power of charging and supply

**<10ms**

Off-grid switching

**4000m**

Max. operating altitude



# Single Phase Hybrid Inverter (HV) (3-6) kW

Type Designation	SiH-3kW-SH	SiH-3.6kW-SH	SiH-4kW-SH	SiH-5kW-SH	SiH-6kW-SH
PV (input)					
Max. recommended PV array power [Wp]	10000	10700	11000	12000	13000
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	2 (1/1)				
Max. PV input current [A]	32 (16/16)				
Max. DC short-circuit current [A]	40 (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]	30/30				
Max. charge/discharge power [W]	6600/6600				
Backup Output (On-Grid Mode)					
Rated output power [W]	6000				
Rated output current [A]	27				
Backup Output (Off-Grid Mode)					
Rated output power	3000 W/3000 VA	3680 W/3680 VA	4000 W/4000 VA	5000 W/5000 VA	6000 W/6000 VA
Peak output power***	8400 VA, 10s				
Backup switching time [ms]	<10				
Rated voltage [V]	220/230/240 (±2 %)				
Frequency range [Hz]	50/60 (±0.5 %)				
Total harmonic distortion (THDv, rated power, linear load) [%]	≤2				
Grid (input/output)					
Max. AC input power from grid [VA]	10000	10700	11000	12000	13000
Rated AC output power [W]	3000	3680	4000	5000	6000
Max. AC output power [VA]	3000	3680	4000	5000	6000
Rated AC output current (at 230V) [A]	13.1	16	17.4	21.8	26.1
Max. AC output current [A]	13.7	16	18.2	22.8	27.3
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, rated power) [%]	<3				
Power factor at rated power	>0.99				
Adjustable power factor	adj.0.8.leading to 0.8 lagging				
Efficiency					
Max. efficiency/European efficiency [%]	97.30/97.00	97.50/97.00		97.70/97.30	
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]	495*345*180				
Weight [kg]	≤20				
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/1*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

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

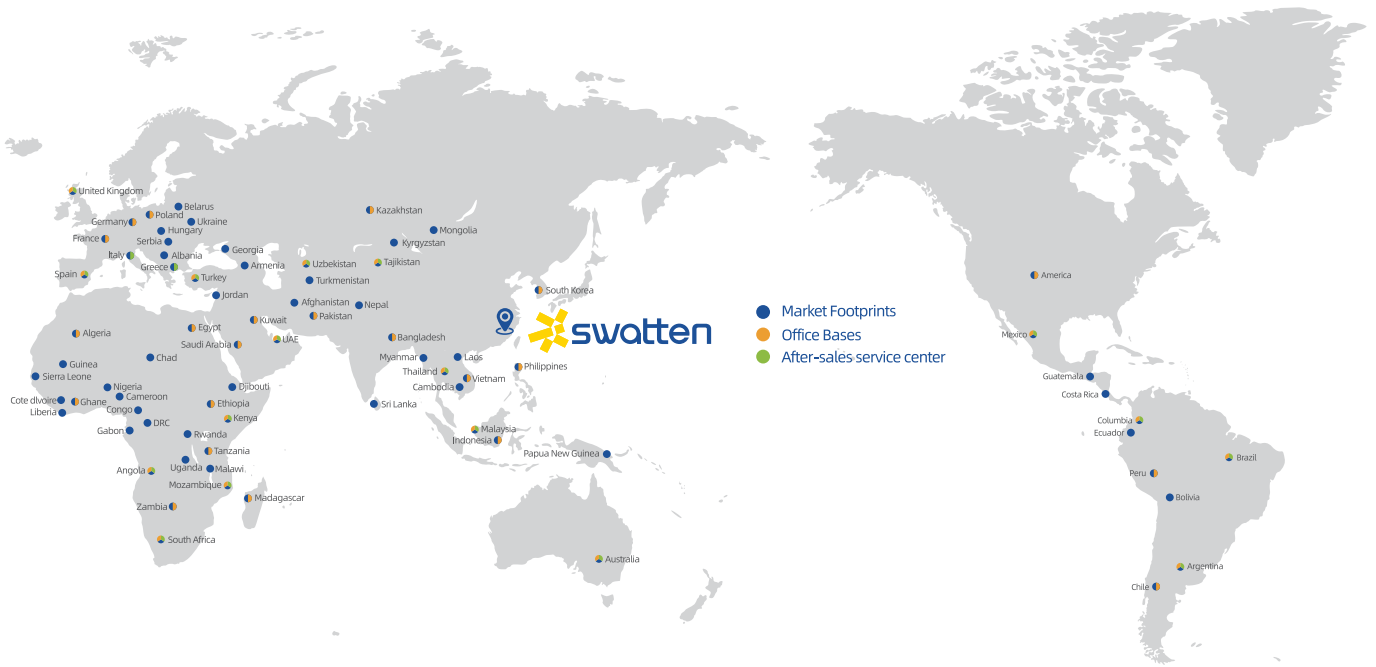
Sieyuan Utility Scale BESS

 **swatten**  
Powered by Sieyuan

C&I and Residential BESS



## Global Marketing & Service Layout



## Our Global Clients





## Swatten Europe Case



## Swatten APAC Case



## Compatible Battery Brand

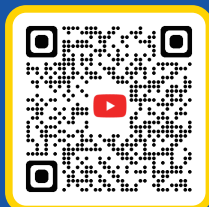
\* For detailed list please contact our technical team



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