swatten
Powered by Sieyuan

All-In-One
(HV) (5-20) kW

Smarter Power Better Life

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ALL-IN-ONE 5-20kW

Compared With Separate Installation

All-in-one after-sales service

- 10-year warranty. Replace new machines instead of repairing.*
- No need to worry about after-sales between inverters and batteries of different brands.

* For critical parts quality issues.

Saves 20% space

- Integrated humanized design, removed redundant cables.
- Adds points to beauty and attractiveness.

20% reduction in installation time

- Stack installation with Plug & Play connection.
- Makes the installation process time-saving, cost-effective and worry-free.

Integrated AC Charger, Plug & Play

- Charging electric vehicles with clean energy, effectively save charging costs.

All-in-one System Three Phase (HV) (10-20) kW

Type Designation	All-in-one sys-10kW-TH PRO	All-in-one sys-15kW-TH	All-in-one sys-20kW-TH
PV (input)			
Max. recommended PV array power [Wp]	20000	30000	40000
Max. PV input voltage [V]	1000		
Rated PV input voltage [V]	650		
Start-up input voltage [V]	150		
MPPT voltage range [V]	150-950		
No. of MPPT/Strings per MPPT	3 (2/1/1)		3 (2/2/1)
Max. PV input current [A]	64 (32/16/16)		80 (32/32/16)
Max. DC short-circuit current [A]	80 (40/20/20)		100 (40/40/20)
Battery			
Battery type	Li-ion battery		
Max. charge/discharge current [A]	30/30		
Nominal voltage range [V]	192-512 (64 per module)		
Nominal capacity range	9.6 kWh-25.6 kWh (3.2 kWh / 50 Ah per module)		
Number of connectable modules	3-8 modules		
Backup (output)			
Rated output power (off-grid mode) [VA]	10000	15000	20000
Peak output power (off-grid mode)	16800 W / 16800 VA, 10s	25500 W / 25500 VA, 10s	32000 W / 32000 VA, 10s
Max. output power (on-grid mode)	43000 W / 43000 VA		
Max. output current (on-grid mode) [A]	3*63		
Backup switching time [ms]	<10		
Rated voltage [V]	3/N/PE, 220/380; 230/400; 240/415		
Frequency range [Hz]	50/60		
Total harmonic distortion (THDv, rated power, linear load) [%]	≤2		
Grid (input/output)			
Max. AC power from grid	43000 W / 43000 VA		
Rated AC output power [VA]	10000	15000	20000
Max. AC output power [VA]	10000	15000	20000
Max. AC output current [A]	15.2	22.8	30.3
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		
Effciency			
Max. effciency/European effciency [%]	98.00/97.50	98.10/97.60	
Protection & Function			
Parallel*	Master-slave mode		
Surge protection	Type II, DC and AC		
Overvoltage category	II DC and III AC		
Protective class	Class I		
Gird 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]	640*1012*360 (With 3 Battery modules)		
Weight [kg]	<152 (With 3 Battery modules)		
Mounting method	Floor-standing		
Operating ambient temperature range [℃]	-25-60 (Derating above 45)		
Storage temperature [℃]	-20-45 (≤1 Month)/-20-25 (≤6 Months)		
Allowable relative humidity range [%]	5-95		
Cooling method	Natural convection		
Noise (Typical)	35 dB (A)		
Max. operating altitude [m]	2000		
Display	LED		
Communication	2*RS485/2*CAN/WLAN		
DI/DO	4*DI/2*DO/DRM0		
DC connection type	MC4 (PV, Max. 6 mm^2)		
Battery connection type	Plug and play connector (Battery, Max. 10 mm^2)		
AC connection type	OT Terminals (Grid / Backup, Max. 26 mm^2)		

* Detail refer to inverters parallel configuration in User Manual

About swatten

Powered by Sieyuan

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
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C&I and Residential BESS

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

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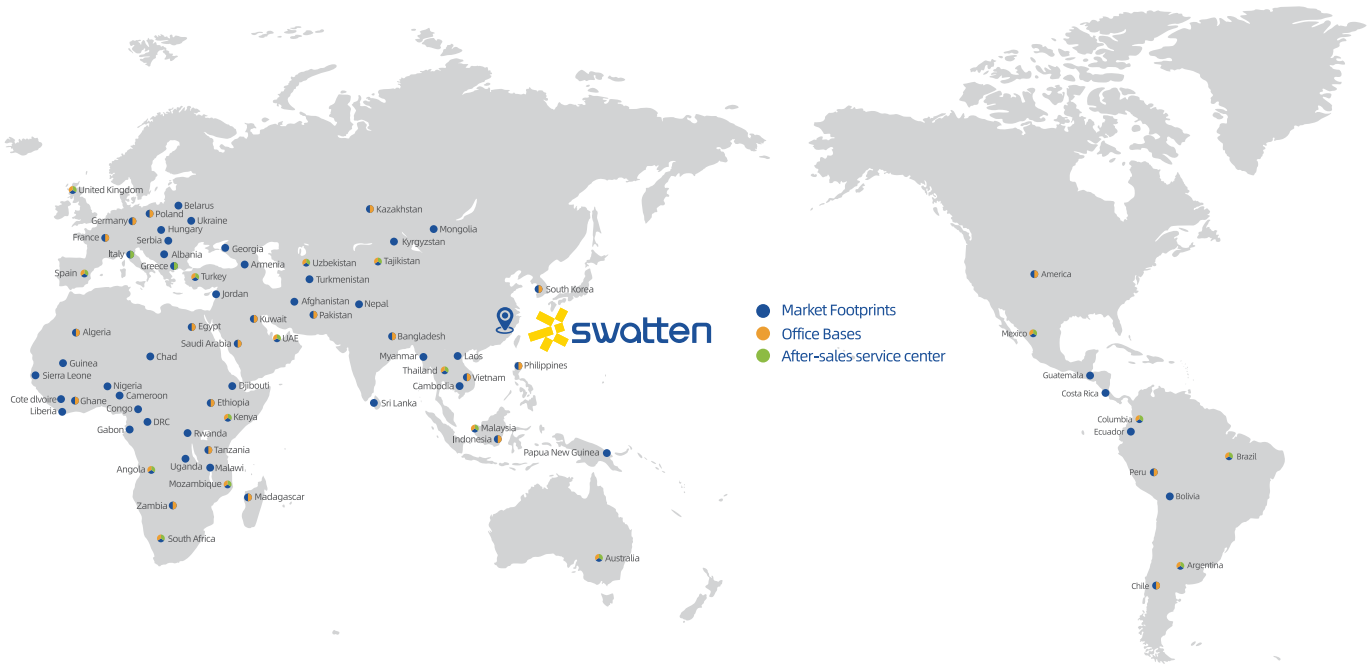
Global Marketing & Service Layout



Our Global Clients

Swatten Europe Case



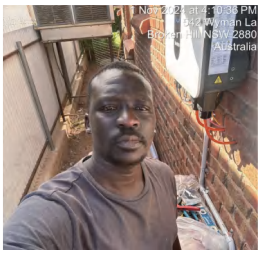




Swatten APAC Case





Compatible Battery Brand

* For detailed list please contact our technical team

ATL · POWERAMP · BYD · EVE · PYLONTECH · Dyness · Ampace · HAME · VESTWOODS · CIE

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