



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

Smarter Power Better Life



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			Li-ion battery	
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				
Parallel***			Master-slave mode	
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	

* Depending on the connected battery

** Can be reached only if PV and battery power is sufficient

*** Detail refer to inverters parallel configuration in User Manual

Full Range From Power Generation,
Transmission, Distribution To

Energy Storage

30 years

With 30+ years of experience,
specialized in equipment manufacturing
and engineering services

Public Co.

Founded in 1993
Stock listed in 2004 (SZSE002028)

US\$2.3 Billion

2023 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

60+

With 9500+ employees
in 60+ countries and regions

1,000kV

Full range product: 10kV -1,000kV

esGrid

Grid-level energy storage

Sieyuan Utility Scale BESS



Residential storage solution



Global Marketing & Service Layout



Our Global Clients

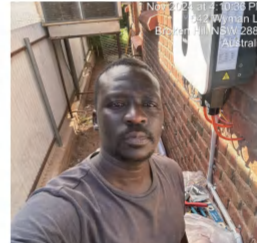




Swatten Europe Case



Swatten APAC Case



Compatible Battery Brand

* For detailed list please contact our technical team



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