

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

Smarter Power Better Life



KEY FEATURES



100%
Unbalanced output at

full power

Max 3

Fanless
Natural convection

<10ms
Off-grid switching

98.4%

Max. Efficiency

4000_m

Max. opreating altitude



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

| Type Designation | SiH-5kW-TH | SiH-6kW-TH | SiH-8kW-TH | SiH-10kW-TH |
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| PV (input) | | | | |
| Max. recommended PV array power [Wp] | 7500 | 9000 | 12000 | 15000 |
| Max. PV input voltage [V] | 7,500 | 1000 | | 13000 |
| Rated PV input voltage [V] | | 600 | | |
| Start-up input voltage [V] | 180 | | | |
| MPPT voltage range [V] | | 150-9 | 50 | |
| 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 ba | tterv | |
| Battery voltage range [V] | | 150-6 | • | |
| Max. charge/discharge current* [A] | 30/30 | | | |
| lax. 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 |
| eak output power (off-grid mode)** | 6000VA, 5min/10000VA, 10s | 7200VA, 5min/10000VA, 10s | 12000VA, 5min | 12000VA, 5min |
| 1ax. output power (on-grid mode) [VA] | 5500 | 6600 | 8800 | 11000 |
| lax. output current (on-grid mode) [A] | 8.4 | 10 | 13.3 | 16.7 |
| ackup switching time [ms] | | <10 | | |
| ated voltage [V] | | 3/N/PE, 220/380; 230/ | | |
| requency range [Hz] | | 50/60 (±0 | J.570) | |
| otal 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 |
| ባax. AC output current [A] | 8.4 | 10 | 13.3 | 16.7 |
| lated AC voltage [V] | 3/N/PE, 220/380; 230/400; 240/415 | | | |
| AC voltage range [V] | 270-480 | | | |
| | 50/60 | | | |
| | | | | |
| Grid frequency range [Hz] | | 50/6i 45-55/5: | | |
| Grid frequency range [Hz] Fotal harmonic distortion | | | | |
| Rated grid frequency [Hz] Grid frequency range [Hz] Fotal harmonic distortion THDi, rated power) [%] | | 45-55/5 | | |
| Grid frequency range [Hz] Fotal harmonic distortion | | 45-55/5 | 5-65 | |
| Grid frequency range [Hz] Fotal harmonic distortion THDi, rated power) [%] Power factor at rated power/ Adjustable power factor | | 45-55/5 <3 | 5-65 | |
| Grid frequency range [Hz] Fotal harmonic distortion THDi, rated power) [%] Fower factor at rated power/ Adjustable power factor | 00.00/07.70 | 45-55/5 <3 >0.99/0.8.leading | to 0.8 lagging | 0.07.00 |
| Grid frequency range [Hz] Fotal harmonic distortion THDi, rated power) [%] Fower factor at rated power/ Adjustable power factor Efficiency Max. efficiency/European efficiency [%] | 98.00/97.20 | 45-55/5 <3 | to 0.8 lagging | 0/97.90 |
| Grid frequency range [Hz] Fotal harmonic distortion THDi, rated power) [%] Power factor at rated power/ | 98.00/97.20 | 45-55/5 <3 >0.99/0.8.leading | to 0.8 lagging | 0/97.90 |
| Grid frequency range [Hz] Fotal harmonic distortion THDi, rated power) [%] Fower factor at rated power/ Adjustable power factor Fficiency Max. efficiency/European efficiency [%] Protection & Function | 98.00/97.20 | 45-55/5 <3 >0.99/0.8.leading | 5-65 to 0.8 lagging 98.40 | 0/97.90 |
| Grid frequency range [Hz] Fotal harmonic distortion THDi, rated power) [%] Fower factor at rated power/ Adjustable power factor Fificiency Max. efficiency/European efficiency [%] Protection & Function Parallel*** | 98.00/97.20 | 45-55/5 <3 >0.99/0.8.leading 98.20/97.50 | 5-65 to 0.8 lagging 98.40 e mode | 0/97.90 |
| Grid frequency range [Hz] Fotal harmonic distortion THDi, rated power) [%] Fower factor at rated power/ Adjustable power factor Fficiency Max. efficiency/European efficiency [%] Protection & Function Parallel*** Gurge protection | 98.00/97.20 | 45-55/5 <3 >0.99/0.8.leading 98.20/97.50 Master-slav | to 0.8 lagging 98.40 e mode and AC | 0/97.90 |
| Frid frequency range [Hz] Fotal harmonic distortion THDi, rated power) [%] Fower factor at rated power/ Adjustable power factor Efficiency Max. efficiency/European efficiency [%] Protection & Function Parallel*** Europe protection Dervoltage category Protective class | 98.00/97.20 | 45-55/5 <3 >0.99/0.8.leading 98.20/97.50 Master-slav Type II, DC II DC and Class | to 0.8 lagging 98.40 e mode and AC III AC | 0/97.90 |
| irid frequency range [Hz] fotal harmonic distortion THDi, rated power) [%] fower factor at rated power/ dijustable power factor Efficiency Max. efficiency/European efficiency [%] Protection & Function Parallel*** Europe protection Overvoltage category Protective class Firid monitoring | 98.00/97.20 | 45-55/5 <3 >0.99/0.8.leading 98.20/97.50 Master-slav Type II, DC II DC and Class Yes | to 0.8 lagging 98.40 e mode and AC III AC | 0/97.90 |
| Grid frequency range [Hz] Fotal harmonic distortion THDi, rated power) [%] Fower factor at rated power/ Adjustable power factor Efficiency Flat. efficiency/European efficiency [%] Protection & Function Parallel*** Surge protection Overvoltage category Protective class Grid monitoring DC reverse polarity protection | 98.00/97.20 | 45-55/5 <3 >0.99/0.8.leading 98.20/97.50 Master-slav Type II, DC II DC and Class | to 0.8 lagging 98.40 e mode and AC III AC | 0/97.90 |
| Grid frequency range [Hz] Grotal harmonic distortion THDi, rated power) [%] Grower factor at rated power/ Adjustable power factor Efficiency Max. efficiency/European efficiency [%] Protection & Function Parallel*** Gurge protection Overvoltage category Protective class Grid monitoring OC reverse polarity protection Battery input reverse polarity protection | 98.00/97.20 | 45-55/5 <3 >0.99/0.8.leading 98.20/97.50 Master-slav Type II, DC II DC and Class Yes Yes Yes | to 0.8 lagging 98.40 e mode and AC III AC | 0/97.90 |
| Grid frequency range [Hz] Fotal harmonic distortion THDi, rated power) [%] Fower factor at rated power/ Adjustable power factor Force ficiency Force ficiency/European efficiency [%] Forcection & Function Function Foreveroltage category Forcective class Firid monitoring Oc reverse polarity protection Battery input reverse polarity protection Insulation monitoring (LV) | 98.00/97.20 | 45-55/5 <3 >0.99/0.8.leading 98.20/97.50 Master-slav Type II, DC II DC and Class Yes Yes Yes Yes | to 0.8 lagging 98.40 e mode and AC III AC | 0/97.90 |
| Grid frequency range [Hz] Fotal harmonic distortion THDi, rated power) [%] Fower factor at rated power/ Adjustable power factor Forcetion & Function F | 98.00/97.20 | 45-55/5 <3 >0.99/0.8.leading 98.20/97.50 Master-slav Type II, DC II DC and Class Yes Yes Yes Yes Yes Yes | to 0.8 lagging 98.40 e mode and AC III AC | 0/97.90 |
| Grid frequency range [Hz] Fotal harmonic distortion THDi, rated power) [%] Fower factor at rated power/ Adjustable power factor Ficiency Foratection & Function Foratellel*** Fourge protection Foreverse polarity protection Forattery input reverse polarity protection Forsted in monitoring (LV) For Short-circuit protection Residual current protection | 98.00/97.20 | 45-55/5 <3 >0.99/0.8.leading 98.20/97.50 Master-slav Type II, DC II DC and Class Yes Yes Yes Yes Yes Yes Yes Yes | to 0.8 lagging 98.40 e mode and AC III AC I | 0/97.90 |
| Grid frequency range [Hz] Fotal harmonic distortion THDi, rated power) [%] Fower factor at rated power/ Adjustable power factor Efficiency Max. efficiency/European efficiency [%] Protection & Function Parallel*** Gurge protection Devervoltage category Protective class Grid monitoring DC reverse polarity protection Battery input reverse polarity protection Insulation monitoring (LV) AC short-circuit protection Residual current protection DC switch (PV) | 98.00/97.20 | 45-55/5 <3 >0.99/0.8.leading 98.20/97.50 Master-slav Type II, DC II DC and Class Yes Yes Yes Yes Yes Yes Yes Yes Yes | to 0.8 lagging 98.40 e mode and AC III AC I | 0/97.90 |
| Grid frequency range [Hz] Fotal harmonic distortion THDi, rated power) [%] Fower factor at rated power/ Adjustable power factor Ficiency Foratection & Function Foratellel*** Four group rotection Foreverse polarity protection Foratery input reverse polarity protection For short-circuit protection Residual current protection For switch (PV) Foreverse potection | 98.00/97.20 | 45-55/5 <3 >>0.99/0.8.leading 98.20/97.50 Master-slav Type II, DC II DC and Class Yes Yes Yes Yes Yes Yes Yes Yes Yes Y | to 0.8 lagging 98.40 e mode and AC III AC I | 0/97.90 |
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| Grid frequency range [Hz] Fotal harmonic distortion THDi, rated power) [%] Fower factor at rated power/ Adjustable power factor Force ficiency Force ficiency/European efficiency [%] Forcection & Function Foratallel*** Four ge protection Foreverse polarity protection For everse polarity protection For short-circuit protection Residual current protection Conswitch (PV) For ever-heat protection | 98.00/97.20 | 45-55/5 <3 >>0.99/0.8.leading 98.20/97.50 Master-slav Type II, DC II DC and Class Yes Yes Yes Yes Yes Yes Yes Yes Yes Y | to 0.8 lagging 98.40 e mode and AC III AC I | 0/97.90 |
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| Grid frequency range [Hz] Fotal harmonic distortion FHDi, rated power) [%] Fower factor at rated power/ Efficiency Max. efficiency/European efficiency [%] Protection & Function Parallel*** Fourge protection Dervoltage category Protective class Firid monitoring For everse polarity protection Fourth insulation monitoring (LV) For sevice class For everse polarity protection For everse polarity protec | 98.00/97.20 | 45-55/5 <3 >0.99/0.8.leading 98.20/97.50 Master-slav Type II, DC II DC and Class Yes Yes Yes Yes Yes Yes Yes OPT Transform | to 0.8 lagging 98.40 e mode and AC III AC I | 0/97.90 |
| irid frequency range [Hz] total harmonic distortion ITHDi, rated power) [%] tower factor at rated power/ djustable power factor ifficiency tax. efficiency/European efficiency [%] Protection & Function arallel*** urge protection towervoltage category rotective class trid monitoring IC reverse polarity protection attery input reverse polarity protection assulation monitoring (LV) IC short-circuit protection esidual current protection esidual current protection for switch (PV) tover-heat protection FCI General Data opology (PV/battery) tegree of protection imensions (W*H*D) [mm] | 98.00/97.20 | 45-55/5 <3 >>0.99/0.8.leading 98.20/97.50 Master-slav Type II, DC II DC and Class Yes Yes Yes Yes Yes Yes Yes OPT Transform IP65 | to 0.8 lagging 98.40 e mode and AC III AC I | 0/97.90 |
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| Grid frequency range [Hz] Gotal harmonic distortion THDi, rated power) [%] Gower factor at rated power/ Adjustable power factor Efficiency Max. efficiency/European efficiency [%] Protection & Function Parallel*** Gurge protection Overvoltage category Protective class Grid monitoring OC reverse polarity protection Gualation monitoring (LV) AC short-circuit protection Residual current protection Residual c | 98.00/97.20 | 45-55/5 <3 >>0.99/0.8.leading 98.20/97.50 Master-slav Type II, DC II DC and Class Yes Yes Yes Yes OPT Transform IP65 450*550 31 Wall-mountin -25-60 (Deratin | to 0.8 lagging 98.40 e mode and AC III AC I erless *185 g bracket g above 45) | 0/97.90 |
| irid frequency range [Hz] otal harmonic distortion ITHDi, rated power) [%] ower factor at rated power/ idjustable power factor ifficiency Max. efficiency/European efficiency [%] Protection & Function arallel*** urge protection Overvoltage category Irotective class orid monitoring IC reverse polarity protection Insulation monitoring (LV) IC short-circuit protection Itesidual current protection IC switch (PV) IVID INTERIOR INTERIO | 98.00/97.20 | 45-55/5 <3 >>0.99/0.8.leading 98.20/97.50 Master-slav Type II, DC II DC and Class Yes Yes Yes Yes Yes Yes Yes Ares Ares Ares Ares Ares Ares Ares Ar | to 0.8 lagging 98.40 e mode and AC III AC I erless *185 g bracket g above 45) | 0/97.90 |
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| Grid frequency range [Hz] Gotal harmonic distortion THDi, rated power) [%] Gower factor at rated power/ Adjustable power factor Efficiency Max. efficiency/European efficiency [%] Protection & Function Parallel*** Gurge protection Pervoltage category Protective class Grid monitoring OC reverse polarity protection Battery input reverse polarity protection Casulation monitoring (LV) CC short-circuit protection CE switch (PV) Deer-heat protection AFCI Seneral Data Gopology (PV/battery) Degree of protection Dimensions (W*H*D) [mm] Veight [kg] Mounting method Departing ambient temperature range [°C] Killowable relative humidity range Non-condensing) [%] Gooling method | 98.00/97.20 | 45-55/5 <3 >>0.99/0.8.leading 98.20/97.50 Master-slav Type II, DC II DC and Class Yes Yes Yes Yes Yes Yes Yes Yes Yes Y | to 0.8 lagging 98.40 e mode and AC III AC I erless *185 g bracket g above 45) 0 | 0/97.90 |
| Grid frequency range [Hz] Fotal harmonic distortion THDi, rated power) [%] Fower factor at rated power/ Adjustable power factor Efficiency Max. efficiency/European efficiency [%] Protection & Function Parallel*** Surge protection Pervoltage category Protective class Grid monitoring DC reverse polarity protection Battery input reverse polarity protection Insulation monitoring (LV) AC short-circuit protection Residual current protection AFCI General Data Fopology (PV/battery) Degree of protection Dimensions (W*H*D) [mm] Weight [kg] Mounting method Departing ambient temperature range [°C] Allowable relative humidity range Non-condensing) [%] Cooling method Max. operating altitude | 98.00/97.20 | 45-55/5 <3 >>0.99/0.8.leading 98.20/97.50 Master-slav Type II, DC II DC and Class Yes Yes Yes Yes Yes Yes Yes Afortion Transform IP65 450*550 31 Wall-mountin -25-60 (Deratin 0-100 Natural con | to 0.8 lagging 98.40 e mode and AC III AC I serless *185 g bracket g above 45) 0 | 0/97.90 |
| Grid frequency range [Hz] Fotal harmonic distortion THDi, rated power) [%] Fower factor at rated power/ Adjustable power factor Efficiency Max. efficiency/European efficiency [%] | 98.00/97.20 | 45-55/5 <3 >>0.99/0.8.leading 98.20/97.50 Master-slav Type II, DC II DC and Class Yes Yes Yes Yes Yes Yes Yes And Yes | to 0.8 lagging 98.40 e mode and AC III AC I serless *185 g bracket g above 45) 0 vection | 0/97.90 |
| Grid frequency range [Hz] Fotal harmonic distortion THDi, rated power) [%] Fower factor at rated power/ Adjustable power factor Efficiency Max. efficiency/European efficiency [%] Protection & Function Parallel*** Fourge protection Pervoltage category Protective class Foid monitoring For reverse polarity protection Battery input reverse polarity protection Insulation monitoring (LV) AC short-circuit protection Residual current protection Residual current protection For switch (PV) Fore-heat protection For large For | 98.00/97.20 | 45-55/5 <3 >>0.99/0.8.leading 98.20/97.50 Master-slav Type II, DC II DC and Class Yes Yes Yes Yes Yes Yes Yes Afortion Transform IP65 450*550 31 Wall-mountin -25-60 (Deratin 0-100 Natural con 4000 LED | to 0.8 lagging 98.40 e mode and AC III AC I serless *185 g bracket g above 45) 0 vection) | 0/97.90 |
| Grid frequency range [Hz] Fotal harmonic distortion THDi, rated power) [%] Fower factor at rated power/ Adjustable power factor Efficiency Max. efficiency/European efficiency [%] Protection & Function Parallel*** Surge protection Perotective class Frid monitoring For reverse polarity protection Battery input rever | 98.00/97.20 | 45-55/5 <3 >>0.99/0.8.leading 98.20/97.50 Master-slav Type II, DC II DC and Class Yes Yes Yes Yes Yes Yes Yes Yes Yes Y | to 0.8 lagging 98.40 e mode and AC III AC I erless *185 g bracket g above 45) 0 vection) //WLAN | 0/97.90 |
| Grid frequency range [Hz] Fotal harmonic distortion THDi, rated power) [%] Fower factor at rated power/ Adjustable power factor Efficiency Max. efficiency/European efficiency [%] Protection & Function Parallel*** Surge protection Perotective class Frid monitoring For reverse polarity protection Battery input reverse polarity protection Battery input reverse polarity protection Residual current protection Poswitch (PV) Pover-heat protection AFCI General Data Fopology (PV/battery) Foreigne of protection Dimensions (W*H*D) [mm] Weight [kg] Mounting method Deparating ambient temperature range [°C] Allowable relative humidity range Non-condensing) [%] Fooling method Max. operating altitude Display Communication DI/DO | 98.00/97.20 | 45-55/5 <3 >0.99/0.8.leading 98.20/97.50 Master-slav Type II, DC II DC and Class Yes Yes Yes Yes Yes Yes Yes Yes Yes Y | to 0.8 lagging 98.40 e mode and AC III AC I erless *185 g bracket g above 45) 0 vection) /WLAN I/DRM | 0/97.90 |

^{*} 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\$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

60+

With 10,000+ employees in 60+ countries and regions

1,000kV

Full range product: 10kV -1,000kV

esGrid Grid-level energy storage

Sieyuan Utility Scale BESS



C&l and Residential BESS







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Swatten Europe Case















<

Swatten APAC Case















Compatible Battery Brand



Dyness





















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