

Three Phase Hybrid Inverter (HV) (10-50) kW

Smarter Power Better Life



Three Phase Hybrid Inverter 10-50kW



Community hospital

More Powerful 200%

Oversizing PV system PV input power up to 60kW

More Reliable 55 kW

Max. output power for backup load during On-Grid mode

Supports $\frac{30}{pcs}$

Supports 30 pcs in parallel with Master-Slave control, delivering up to 1500kW

More Flexible PV Strings

Divide the solar panels into up to six zones

Adapts to complex installation scenarios

More Extensive 700 %

Ensures all the energy supplied is green energy

Support fast Ac chargers and SG-ready heat pumps

More Intelligent $\frac{10}{ms}$

Three Phase Hybrid Inverter (HV) (10-20) kW

| Type Designation | SiH-10kW-TH-PRO | SiH-15kW-TH | SiH-20kW-TH |
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| V (input) | | | |
| | 20000 | 20000 | 40000 |
| Max. recommended PV array power [Wp] | 20000 | 30000 | 40000 |
| lax. PV input voltage [V] | 1000 650 | | |
| ated PV input voltage [V] | | | |
| tart-up input voltage [V] | | 150 | |
| IPPT voltage range [V] | | 150-950 | |
| o. of MPPT/Strings per MPPT | | 2/1/1) | 3 (2/2/1) |
| lax. PV input current [A] | 64 (32/16/16) | | 80 (32/32/16) |
| lax. DC short-circuit current [A] | 80 (40/20/20) | | 100 (40/40/20) |
| Battery (input/output) | | | |
| attery type | | Li-ion battery | |
| attery voltage range [V] | | 100-800 | |
| Max. charge/discharge current* [A] | | 50/50 | |
| Nax. charge/discharge power [W] | 15000/10000 | 30000/15000 | 30000/20000 |
| | 15000/10000 | 30000/15000 | 30000/20000 |
| Grid (input/output) | | | |
| lax. AC power from grid | | 43000 W / 43000 VA | |
| ated AC output power [VA] | 10000 | 15000 | 20000 |
| lax. AC output power [VA] | 10000 | 15000 | 20000 |
| lax. AC output current [A] | 15.2 | 22.8 | 30.3 |
| ated voltage [V] | 13.2 | 3 / N / PE, 220 / 380; 230 / 400; 240 / 415 | د.υد |
| | | | |
| C voltage range [V] | | 270-480 | |
| ated grid frequency [Hz] | | 50/60 | |
| rid frequency range [Hz] | | 45-55 / 55-65 | |
| otal harmonic distortion (THDi, rated power) [%] | | < 3 | |
| ower factor at rated power / | | > 0.99 / 0.8 leading to 0.8 lagging | |
| djustable power factor | | | |
| Backup (output) | | | |
| Rated voltage [V] | | 3 / N / PE, 220 ; 230 ; 240 | |
| requency range [Hz] | | 50 / 60 | |
| otal harmonic distortion | | | |
| THDv, rated power, Linear load) [%] | | ≤2 | |
| ackup switching time [ms] | | < 10 | |
| Rated output power (off-grid mode) [VA] | 10000 | | 20000 |
| | 10000 | 15000 | 20000 |
| Peak output power (off-grid mode)** | 16800 W / 168000 VA, 10s | 25500 W / 25500 VA, 10s | 32000 W / 32000 VA, 10s |
| Aax. output power (on-grid mode) | | 43000 W / 43000 VA | |
| ባax. output current (on-grid mode) [A] | | 3*63 | |
| Efficiency | | | |
| . (0) 1 (5) (6) 1 | | 00.10// | |
| lax. efficiency/European efficiency [%] | 98.00/97.50 | 98.10/ | 97.60 |
| | 98.00/97.50 | 98.107 | 97.60 |
| Protection & Function | 98.00/97.50 | | 97.60 |
| | 98.00/97.50 | Master-slave mode | 97.60 |
| Protection & Function | 98.00/97.50 | | 97.60 |
| Protection & Function arallel*** urge protection | 98.00/97.50 | Master-slave mode | 97.60 |
| Protection & Function arallel*** urge protection divervoltage category | 98.00/97.50 | Master-slave mode Type II , DC and AC | 97.60 |
| Protection & Function arallel*** urge protection overvoltage category rotective class | 98.00/97.50 | Master-slave mode Type II , DC and AC II DC and III AC | 97.60 |
| Protection & Function varialle *** urge protection overvoltage category rotective class orid monitoring | 98.00/97.50 | Master-slave mode Type II , DC and AC II DC and III AC Class I | 97.60 |
| Protection & Function Parallel*** urge protection Divervoltage category Protective class Grid monitoring DC reverse polarity protection | 98.00/97.50 | Master-slave mode Type II , DC and AC II DC and III AC Class I Yes Yes | 97.60 |
| Protection & Function Parallel*** urge protection Divervoltage category Protective class Grid monitoring Of reverse polarity protection Pattery input reverse polarity protection | 98.00/97.50 | Master-slave mode Type II , DC and AC II DC and III AC Class I Yes Yes Yes | 97.60 |
| Protection & Function Parallel*** Unruge protection Divervoltage category Protective class Or everse polarity protection Pattery input reverse polarity protection Insulation monitoring | 98.00/97.50 | Master-slave mode Type II , DC and AC II DC and III AC Class I Yes Yes Yes Yes | 97.60 |
| Protection & Function arallel*** urge protection Dervoltage category Protective class Grid monitoring OF reverse polarity protection Eattery input reverse polarity protection Insulation monitoring OF short-circuit protection | 98.00/97.50 | Master-slave mode Type II , DC and AC II DC and III AC Class I Yes Yes Yes Yes Yes Yes | 97.60 |
| Protection & Function arallel*** urge protection Dervoltage category Protective class Grid monitoring OF reverse polarity protection Fattery input reverse polarity protection Insulation monitoring OF short-circuit protection Residual current protection | 98.00/97.50 | Master-slave mode Type II , DC and AC II DC and III AC Class I Yes Yes Yes Yes Yes Yes Yes Yes | 97.60 |
| Protection & Function arallel*** Urge protection Devervoltage category Protective class Grid monitoring OF reverse polarity protection Fattery input reverse polarity protection Insulation monitoring OF short-circuit protection Residual current protection DE switch (PV) | 98.00/97.50 | Master-slave mode Type II , DC and AC II DC and III AC Class I Yes Yes Yes Yes Yes Yes Yes Yes Yes | 97.60 |
| Protection & Function arallel*** urge protection overvoltage category orotective class orid monitoring Or reverse polarity protection attery input reverse polarity protection assulation monitoring or short-circuit protection desidual current protection or switch (PV) over-heat protection | 98.00/97.50 | Master-slave mode Type II , DC and AC II DC and III AC Class I Yes | 97.60 |
| Protection & Function arallel*** urge protection Nervoltage category rotective class irid monitoring IC reverse polarity protection attery input reverse polarity protection insulation monitoring IC short-circuit protection esidual current protection IC switch (PV) Iver-heat protection | 98.00/97.50 | Master-slave mode Type II , DC and AC II DC and III AC Class I Yes Yes Yes Yes Yes Yes Yes Yes Yes | 97.60 |
| Protection & Function Parallel*** Urge protection Poervoltage category rotective class Urid monitoring Ur reverse polarity protection attery input reverse polarity protection asulation monitoring Ur short-circuit protection esidual current protection Ur switch (PV) Urer-heat protection | 98.00/97.50 | Master-slave mode Type II , DC and AC II DC and III AC Class I Yes | 97.60 |
| Protection & Function Parallel*** Unruge protection Divervoltage category Protective class Grid monitoring OF reverse polarity protection Eastery input re | 98.00/97.50 | Master-slave mode Type II , DC and AC II DC and III AC Class I Yes | 97.60 |
| Protection & Function arallel*** urge protection Dervoltage category Protective class Grid monitoring Of reverse polarity protection Fattery input reverse polarity protection Insulation monitoring Of short-circuit protection Residual current protection Desvitch (PV) Dever-heat protection FCI Seneral Data Opology (PV/battery) | 98.00/97.50 | Master-slave mode Type II , DC and AC II DC and III AC Class I Yes Yes Yes Yes Yes Yes Yes Yes OPT Transformerless | 97.60 |
| Protection & Function Parallel*** Urge protection Prevoltage category Protective class Firid monitoring For reverse polarity protection For attery input reverse polarity protection For sulation monitoring For switch (PV) For the at protection For switch (PV) For the at protection For the attery protection | 98.00/97.50 | Master-slave mode Type II , DC and AC II DC and III AC Class I Yes Yes Yes Yes Yes Yes Yes OPT Transformerless IP66 | 97.60 |
| Protection & Function arallel*** urge protection vervoltage category rotective class rid monitoring C reverse polarity protection attery input reverse polarity protection asulation monitoring C short-circuit protection esidual current protection C switch (PV) ver-heat protection FCI General Data opology (PV/battery) egree of protection imensions (W*H*D) [mm] | | Master-slave mode Type II , DC and AC II DC and III AC Class I Yes Yes Yes Yes Yes Yes Yes OPT Transformerless IP66 615 * 465 * 255 | |
| Protection & Function arallel*** urge protection vervoltage category rotective class rid monitoring C reverse polarity protection attery input reverse polarity protection usulation monitoring C short-circuit protection esidual current protection C switch (PV) ver-heat protection FCI General Data Dopology (PV/battery) egree of protection imensions (W*H*D) [mm] reight [kg] | 98.00/97.50 | Master-slave mode Type II , DC and AC II DC and III AC Class I Yes Yes Yes Yes Yes Yes Yes OPT Transformerless IP66 615 * 465 * 255 | |
| Protection & Function arallel*** urge protection vervoltage category rotective class rid monitoring C reverse polarity protection attery input reverse polarity protection sulation monitoring C short-circuit protection esidual current protection C switch (PV) ver-heat protection FCI Seneral Data opology (PV/battery) egree of protection imensions (W*H*D) [mm] Veight [kg] Jounting method | | Master-slave mode Type II , DC and AC II DC and III AC Class I Yes Yes Yes Yes Yes Yes Yes OPT Transformerless IP66 615 * 465 * 255 Wall-mounting bracket | |
| Protection & Function arallel*** urge protection byervoltage category rotective class arid monitoring of reverse polarity protection attery input reverse polarity protection assulation monitoring of switch (PV) byer-heat protection are a protection are a protection by the protec | | Master-slave mode Type II , DC and AC II DC and III AC Class I Yes Yes Yes Yes Yes Yes Yes OPT Transformerless IP66 615 * 465 * 255 | |
| Protection & Function Parallel*** Urge protection Provervoltage category Protective class Firid monitoring Proverse polarity protection Authority input reverse polarity protection Authority inp | | Master-slave mode Type II , DC and AC II DC and III AC Class I Yes Yes Yes Yes Yes Yes Yes OPT Transformerless IP66 615 * 465 * 255 Wall-mounting bracket | |
| Protection & Function arallel*** urge protection vervoltage category rotective class rid monitoring C reverse polarity protection attery input reverse polarity protection assulation monitoring C short-circuit protection esidual current protection C switch (PV) ever-heat protection FCI General Data opology (PV/battery) egree of protection imensions (W*H*D) [mm] Jeight [kg] Jounting method perating ambient temperature range [°C] Illowable relative humidity range Non-condensing) [%] | | Master-slave mode Type II , DC and AC II DC and III AC Class I Yes Yes Yes Yes Yes Yes Yes Yes OPT Transformerless IP66 615 * 465 * 255 Wall-mounting bracket -25-60 (Derating above 45) 0-100 | |
| Protection & Function Parallel*** Unruge protection Dervoltage category Protective class Firid monitoring Concern polarity protection Fattery input reverse polarity protection Finalition monitoring Consolidation monitor | | Master-slave mode Type II , DC and AC II DC and III AC Class I Yes Yes Yes Yes Yes Yes Yes Yes OPT Transformerless IP66 615 * 465 * 255 Wall-mounting bracket -25-60 (Derating above 45) 0-100 Natural convection | |
| Protection & Function Parallel*** Jurge protection Dervoltage category Trotective class Jurge protection Dervoltage category Trotective class Jurge protection Jurge | | Master-slave mode Type II , DC and AC II DC and III AC Class I Yes Yes Yes Yes Yes Yes Yes Yes OPT Transformerless IP66 615 * 465 * 255 Wall-mounting bracket -25-60 (Derating above 45) 0-100 Natural convection 35 dB (A) | |
| Protection & Function arallel*** urge protection livervoltage category rotective class rid monitoring C reverse polarity protection attery input reverse polarity protection asulation monitoring C short-circuit protection esidual current protection C switch (PV) liver-heat protection FCI Seneral Data opology (PV/battery) legree of protection imensions (W*H*D) [mm] //eight [kg] lounting method operating ambient temperature range [°C] Illowable relative humidity range Non-condensing) [%] ooling method loise (Typical) lax. operating altitude [m] | | Master-slave mode Type II , DC and AC II DC and III AC Class I Yes Yes Yes Yes Yes Yes Yes Ye | |
| Protection & Function arallel*** urge protection prevoltage category rotective class rid monitoring C reverse polarity protection attery input reverse polarity protection sulation monitoring C short-circuit protection esidual current protection C switch (PV) prer-heat protection FCI Seneral Data opology (PV/battery) tegree of protection imensions (W*H*D) [mm] Peight [kg] Iounting method operating ambient temperature range [°C] Illowable relative humidity range Non-condensing) [%] ooling method loise (Typical) Itax. operating altitude [m] iisplay | | Master-slave mode Type II , DC and AC II DC and III AC Class I Yes Yes Yes Yes Yes Yes Yes Ye | |
| Protection & Function arallel*** urge protection livervoltage category rotective class rid monitoring C reverse polarity protection attery input reverse polarity protection asulation monitoring C short-circuit protection esidual current protection C switch (PV) liver-heat protection FCI Seneral Data opology (PV/battery) legree of protection imensions (W*H*D) [mm] //eight [kg] lounting method operating ambient temperature range [°C] Illowable relative humidity range Non-condensing) [%] ooling method loise (Typical) lax. operating altitude [m] | | Master-slave mode Type II , DC and AC II DC and III AC Class I Yes Yes Yes Yes Yes Yes Yes Ye | |
| Protection & Function arallel*** urge protection vervoltage category rotective class rid monitoring C reverse polarity protection attery input reverse polarity protection usulation monitoring C short-circuit protection esidual current protection C switch (PV) ver-heat protection FCI seneral Data pology (PV/battery) egree of protection imensions (W*H*D) [mm] feight [kg] founting method perating ambient temperature range [°C] llowable relative humidity range don-condensing) [%] pooling method oise (Typical) fax. operating altitude [m] isplay communication | | Master-slave mode Type II , DC and AC II DC and III AC Class I Yes Yes Yes Yes Yes Yes Yes Ye | |
| Protection & Function arallel*** urge protection vervoltage category rotective class rid monitoring C reverse polarity protection attery input reverse polarity protection sulation monitoring C short-circuit protection esidual current protection C switch (PV) ver-heat protection FCI General Data opology (PV/battery) egree of protection imensions (W*H*D) [mm] leight [kg] lounting method perating ambient temperature range [°C] llowable relative humidity range von-condensing) [%] oooling method oise (Typical) lax. operating altitude [m] isplay ommunication I/DO | | Master-slave mode Type II , DC and AC II DC and III AC Class I Yes Yes Yes Yes Yes Yes Yes Ye | |
| Protection & Function arallel*** urge protection vervoltage category rotective class rid monitoring C reverse polarity protection attery input reverse polarity protection sulation monitoring C short-circuit protection esidual current protection C switch (PV) ver-heat protection FCI Seneral Data bpology (PV/battery) egree of protection imensions (W*H*D) [mm] reight [kg] dounting method perating ambient temperature range [°C] llowable relative humidity range voon-condensing) [%] cooling method oise (Typical) lax. operating altitude [m] isplay | | Master-slave mode Type II , DC and AC II DC and III AC Class I Yes Yes Yes Yes Yes Yes Yes Ye | |

^{*} 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

Three Phase Hybrid Inverter (HV) (25-50) kW

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| Type Designation | SiH-25kW-TH | SiH-30kW-TH | SiH-40kW-TH | SiH-50kW-TH | |
| PV (input) | | | | | |
| lax. recommended PV array power [Wp] | 50000 | | 60000 | | |
| Max. PV input voltage [V] | 1000 | | | | |
| lated PV input voltage [V] | 650 | | | | |
| tart-up input voltage [V] | 150 | | | | |
| IPPT voltage range [V] | 150-950 | | | | |
| Io. of MPPT/Strings per MPPT | 3 (2/2/2) | | | | |
| lax. PV input current [A] | 96 (32 / 32 / 32) | | | | |
| Max. DC short-circuit current [A] | | 120 (40 / | 40 / 40) | | |
| Battery (input/output) | | | | | |
| Sattery type | | Li-ion b | attery | | |
| Battery voltage range [V] | 100-800 | | | | |
| lax. charge/discharge current* [A] | 60/60 65/6 | | | | |
| lax. charge/discharge power [W] | 30000 / 25000 | 30000 / 30000 | 40000 / 40000 | 50000 / 50000 | |
| Grid (input/output) | | | | | |
| lax. AC power from grid | | 55000 W / 5 | 55000 VA | | |
| ated AC output power [VA] | 25000 | 30000 | 40000 | 50000 | |
| lax. AC output power [VA] | 25000 | 30000 | 40000 | 50000 | |
| lax. AC output current [A] | 37.9 | 45.5 | 60.6 | 75.8 | |
| ated voltage [V] | 31.7 | 3 / N / PE, 220 / 380; | | 73.0 | |
| C voltage range [V] | | 37 N 7 FL, 220 7 380, 5 | | | |
| c voltage range [v] ated grid frequency [Hz] | | 50/0 | | | |
| rid frequency range [Hz] | | 45-55 / | | | |
| otal harmonic distortion (THDi, rated power) [%] | | 45-55 / | | | |
| ower factor at rated power / | | | | | |
| djustable power factor | | > 0.99 / 0.8 leadin | ig to 0.8 lagging | | |
| Backup (output) | | | | | |
| ated voltage [V] | | 3 / N / PE, 220 |) : 230 : 240 | | |
| requency range [Hz] | | 50 / | | | |
| otal harmonic distortion | | | | | |
| THDv, rated power, Linear load) [%] | | ≤2 | 2 | | |
| | | | | | |
| ackup switching time [ms] | | < 1 | n | | |
| | 25000 | < 1 30000 | | 50000 | |
| lated output power (off-grid mode) [VA] | 25000 36500 W / 36500 VA. 10s | 30000 | 40000 | 50000 70000 W / 70000 VA. 10 | |
| tackup switching time [ms] tated output power (off-grid mode) [VA] teak output power (off-grid mode)** Max. output power (on-grid mode) | 25000 36500 W / 36500 VA, 10s | 30000 45000 W / 45000 VA, 10s | 40000 60000 W / 60000 VA, 10s | | |
| lated output power (off-grid mode) [VA] | | 30000 | 40000 60000 W / 60000 VA, 10s 55000 VA | | |
| tated output power (off-grid mode) [VA] Peak output power (off-grid mode)** Max. output power (on-grid mode) Max. output current (on-grid mode) [A] | | 30000 45000 W / 45000 VA, 10s 55000 W / | 40000 60000 W / 60000 VA, 10s 55000 VA | 50000 70000 W / 70000 VA, 10 | |
| Rated output power (off-grid mode) [VA] Peak output power (off-grid mode)** Max. output power (on-grid mode) Max. output current (on-grid mode) [A] Sefficiency | 36500 W / 36500 VA, 10s | 30000 45000 W / 45000 VA, 10s 55000 W / 3*8 | 40000 60000 W / 60000 VA, 10s 55000 VA | 70000 W / 70000 VA, 10 | |
| Rated output power (off-grid mode) [VA] Peak output power (off-grid mode)** Max. output power (on-grid mode) Max. output current (on-grid mode) [A] Efficiency Max. efficiency/European efficiency [%] | | 30000 45000 W / 45000 VA, 10s 55000 W / 3*8 | 40000 60000 W / 60000 VA, 10s 55000 VA | | |
| Rated output power (off-grid mode) [VA] Peak output power (off-grid mode)** Max. output power (on-grid mode) Max. output current (on-grid mode) [A] Efficiency Max. efficiency/European efficiency [%] | 36500 W / 36500 VA, 10s | 30000 45000 W / 45000 VA, 10s 55000 W / 3*8 | 40000 60000 W / 60000 VA, 10s 55000 VA 00 98.20 | 70000 W / 70000 VA, 10 | |
| Rated output power (off-grid mode) [VA] Peak output power (off-grid mode)** Max. output power (on-grid mode) Max. output current (on-grid mode) [A] Efficiency Max. efficiency/European efficiency [%] Protection & Function Variable *** | 36500 W / 36500 VA, 10s | 30000 45000 W / 45000 VA, 10s 55000 W / 3*8 97.80 | 40000 60000 W / 60000 VA, 10s 55000 VA 00 98.20 | 70000 W / 70000 VA, 10 | |
| tated output power (off-grid mode) [VA] seak output power (off-grid mode)** Max. output power (on-grid mode) Max. output current (on-grid mode) [A] Efficiency Max. efficiency/European efficiency [%] Protection & Function arallel*** urge protection | 36500 W / 36500 VA, 10s | 30000 45000 W / 45000 VA, 10s 55000 W / 3*8 97.80 Master-sla Type II , D | 40000 60000 W / 60000 VA, 10s 55000 VA 00 98.20 ve mode C and AC | 70000 W / 70000 VA, 10 | |
| tated output power (off-grid mode) [VA] seak output power (off-grid mode)** Max. output power (on-grid mode) Max. output current (on-grid mode) [A] Sefficiency Max. efficiency/European efficiency [%] Protection & Function arallel*** urge protection Ivervoltage category | 36500 W / 36500 VA, 10s | 30000 45000 W / 45000 VA, 10s 55000 W / 3*8 97.80 Master-sla Type II , DG | 40000 60000 W / 60000 VA, 10s 55000 VA 00 98.20 ve mode C and AC d III AC | 70000 W / 70000 VA, 10 | |
| tated output power (off-grid mode) [VA] seak output power (off-grid mode)** Max. output power (on-grid mode) Max. output current (on-grid mode) [A] Efficiency Max. efficiency/European efficiency [%] Protection & Function arallel*** urge protection overvoltage category rotective class | 36500 W / 36500 VA, 10s | 30000 45000 W / 45000 VA, 10s 55000 W / 3*8 97.80 Master-sla Type II , DO II DC and Clas | 40000 60000 W / 60000 VA, 10s 55000 VA 00 98.20 ve mode C and AC d III AC is I | 70000 W / 70000 VA, 10 | |
| cated output power (off-grid mode) [VA] leak output power (off-grid mode)** Max. output power (on-grid mode) Max. output current (on-grid mode) [A] Efficiency Max. efficiency/European efficiency [%] Protection & Function arallel*** urge protection Overvoltage category rotective class orid monitoring | 36500 W / 36500 VA, 10s | 30000 45000 W / 45000 VA, 10s 55000 W / 3*8 97.80 Master-sla Type II , DC II DC an- Clas Ye | 40000 60000 W / 60000 VA, 10s 55000 VA 10 98.20 IVE mode C and AC d III AC III S | 70000 W / 70000 VA, 10 | |
| cated output power (off-grid mode) [VA] leak output power (off-grid mode)** Max. output power (on-grid mode) Max. output current (on-grid mode) [A] Efficiency Max. efficiency/European efficiency [%] Protection & Function arallel*** urge protection overvoltage category rotective class crid monitoring Oc reverse polarity protection | 36500 W / 36500 VA, 10s | 30000 45000 W / 45000 VA, 10s 55000 W / 3*8 97.80 Master-sla Type II , DC II DC an Clas Ye Ye | 40000 60000 W / 60000 VA, 10s 55000 VA 10 98.20 Ever mode C and AC d III AC III S S | 70000 W / 70000 VA, 10 | |
| cated output power (off-grid mode) [VA] leak output power (off-grid mode)** Max. output power (on-grid mode) Max. output current (on-grid mode) [A] Efficiency Max. efficiency/European efficiency [%] Protection & Function arallel*** urge protection overvoltage category rotective class irid monitoring Or reverse polarity protection attery input reverse polarity protection | 36500 W / 36500 VA, 10s | 30000 45000 W / 45000 VA, 10s 55000 W / 3*8 97.80 Master-sla Type II , DC II DC an Clas Ye Ye Ye | 40000 60000 W / 60000 VA, 10s 55000 VA 10 98.20 ve mode C and AC d III AC is I s | 70000 W / 70000 VA, 10 | |
| Rated output power (off-grid mode) [VA] Peak output power (off-grid mode)** Max. output power (on-grid mode) Max. output current (on-grid mode) [A] Efficiency Max. efficiency/European efficiency [%] Protection & Function Parallel*** Large protection Deervoltage category Protective class Grid monitoring Deervoltage category Control of the protection Lattery input reverse polarity protection Insulation monitoring | 36500 W / 36500 VA, 10s | 30000 45000 W / 45000 VA, 10s 55000 W / 3*8 97.80 Master-sla Type II , DC II DC an Clas Ye Ye Ye Ye | 40000 60000 W / 60000 VA, 10s 55000 VA 100 98.20 ve mode C and AC d III AC is I s | 70000 W / 70000 VA, 10 | |
| cated output power (off-grid mode) [VA] leak output power (off-grid mode)** Max. output power (on-grid mode) Max. output current (on-grid mode) [A] Efficiency Max. efficiency/European efficiency [%] Protection & Function arallel*** urge protection Dervoltage category rotective class irid monitoring IC reverse polarity protection attery input reverse polarity protection insulation monitoring IC short-circuit protection | 36500 W / 36500 VA, 10s | 30000 45000 W / 45000 VA, 10s 55000 W / 3*8 97.80 Master-sla Type II , DC II DC an Clas Ye Ye Ye Ye | 40000 60000 W / 60000 VA, 10s 55000 VA 10 98.20 ve mode C and AC d III AC is I s s s | 70000 W / 70000 VA, 10 | |
| Rated output power (off-grid mode) [VA] Peak output power (off-grid mode)** Max. output power (on-grid mode) Max. output current (on-grid mode) [A] Efficiency Max. efficiency/European efficiency [%] Protection & Function Parallel*** Purge protection Devervoltage category Protective class Firid monitoring For reverse polarity protection For sultation monitoring For Schort-circuit protection Residual current protection Residual current protection | 36500 W / 36500 VA, 10s | 30000 45000 W / 45000 VA, 10s 55000 W / 3*8 97.80 Master-sla Type II , DC II DC an Clas Ye Ye Ye Ye Ye Ye | 40000 60000 W / 60000 VA, 10s 55000 VA 100 98.20 ve mode C and AC d III AC ss I s s s s | 70000 W / 70000 VA, 10 | |
| Rated output power (off-grid mode) [VA] Peak output power (off-grid mode)** Max. output power (on-grid mode) Max. output current (on-grid mode) [A] Efficiency Max. efficiency/European efficiency [%] Protection & Function Parallel*** Burge protection Povervoltage category Protective class Firid monitoring Of reverse polarity protection Buttery input reverse polarity protection Insulation monitoring Of Short-circuit protection Residual current protection Residual current protection Residual current protection | 36500 W / 36500 VA, 10s | 30000 45000 W / 45000 VA, 10s 55000 W / 3*8 97.80 Master-sla Type II , DC II DC an Clas Ye Ye Ye Ye Ye Ye Ye Ye Ye | 40000 60000 W / 60000 VA, 10s 55000 VA 100 98.20 ve mode C and AC d III AC ss I s s s s s | 70000 W / 70000 VA, 10 | |
| Rated output power (off-grid mode) [VA] Peak output power (off-grid mode)** Max. output power (on-grid mode) Max. output current (on-grid mode) [A] Efficiency Max. efficiency/European efficiency [%] Protection & Function Parallel*** Burge protection Povervoltage category Protective class Firid monitoring Of reverse polarity protection Firstlery input reverse polarity protection Residual current protection | 36500 W / 36500 VA, 10s | 30000 45000 W / 45000 VA, 10s 55000 W / 3*8 97.80 Master-sla Type II , DC an Class Ye | 40000 60000 W / 60000 VA, 10s 55000 VA 100 98.20 ve mode C and AC d III AC ss I s s s s s s s s | 70000 W / 70000 VA, 10 | |
| cated output power (off-grid mode) [VA] leak output power (off-grid mode)** Max. output power (on-grid mode) Max. output current (on-grid mode) [A] Efficiency Max. efficiency/European efficiency [%] Protection & Function carallel*** urge protection Nervoltage category rotective class irid monitoring IC reverse polarity protection attery input reverse polarity protection autletion monitoring IC short-circuit protection esidual current protection cesidual current protection ics witch (PV) iver-heat protection ics contact of the contact of | 36500 W / 36500 VA, 10s | 30000 45000 W / 45000 VA, 10s 55000 W / 3*8 97.80 Master-sla Type II , DC II DC an Clas Ye Ye Ye Ye Ye Ye Ye Ye Ye | 40000 60000 W / 60000 VA, 10s 55000 VA 100 98.20 ve mode C and AC d III AC ss I s s s s s s s s | 70000 W / 70000 VA, 10 | |
| Rated output power (off-grid mode) [VA] Peak output power (off-grid mode)** Max. output power (on-grid mode) Max. output current (on-grid mode) [A] Efficiency Max. efficiency/European efficiency [%] Protection & Function Parallel*** Protection Dervoltage category Protective class Frid monitoring For reverse polarity protection For sulation monitoring For Schort-circuit protection Residual current protection | 36500 W / 36500 VA, 10s | 30000 45000 W / 45000 VA, 10s 55000 W / 3*8 97.80 Master-sla Type II , DC an Class Ye | 40000 60000 W / 60000 VA, 10s 55000 VA 100 98.20 ve mode C and AC d III AC ss I s s s s s s s s | 70000 W / 70000 VA, 10 | |
| cated output power (off-grid mode) [VA] leak output power (off-grid mode)** Max. output power (on-grid mode) Max. output current (on-grid mode) [A] Efficiency Max. efficiency/European efficiency [%] Protection & Function arallel*** urge protection Dervoltage category rotective class arid monitoring C reverse polarity protection attery input reverse polarity protection autlation monitoring C short-circuit protection esidual current protection consultation monitoring Consultat | 36500 W / 36500 VA, 10s | 30000 45000 W / 45000 VA, 10s 55000 W / 3*8 97.80 Master-sla Type II , DC an Class Ye | 40000 60000 W / 60000 VA, 10s 55000 VA 100 98.20 ve mode C and AC d III AC is I s s s s s s T | 70000 W / 70000 VA, 10 | |
| tated output power (off-grid mode) [VA] leak output power (off-grid mode)** Max. output power (on-grid mode) Max. output current (on-grid mode) [A] Efficiency Max. efficiency/European efficiency [%] Protection & Function arallel*** urge protection Dervoltage category rotective class arid monitoring C reverse polarity protection attery input reverse polarity protection mulation monitoring C short-circuit protection cesidual current protection | 36500 W / 36500 VA, 10s | 30000 45000 W / 45000 VA, 10s 55000 W / 3*8 97.80 Master-sla Type II , DG II DC an Clas Ye Ye Ye Ye Ye Ye Ye OP | 40000 60000 W / 60000 VA, 10s 55000 VA 100 98.20 ve mode C and AC d III AC ss I s s s s T merless | 70000 W / 70000 VA, 10 | |
| ated output power (off-grid mode) [VA] eak output power (off-grid mode)** flax. output power (on-grid mode) flax. output current (on-grid mode) flax. output current (on-grid mode) [A] ifficiency flax. efficiency/European efficiency [%] Protection & Function arallel*** urge protection ivervoltage category rotective class rid monitoring for reverse polarity protection attery input reverse polarity protection insulation monitoring for short-circuit protection esidual current protection esidual current protection for witch (PV) fiver-heat protection fcc fcc fcc fcc fcc fcc fcc fcc fcc fc | 36500 W / 36500 VA, 10s | 30000 45000 W / 45000 VA, 10s 55000 W / 3*8 97.80 Master-sla Type II , DC II DC an Clas Ye Ye Ye Ye Ye OP Transforn | 40000 60000 W / 60000 VA, 10s 55000 VA 100 98.20 ve mode C and AC d III AC ss s s s s s s s s s | 70000 W / 70000 VA, 10 | |
| ated output power (off-grid mode) [VA] eak output power (off-grid mode)** flax. output power (on-grid mode) flax. output current (on-grid mode) flax. output current (on-grid mode) [A] ifficiency flax. efficiency/European efficiency [%] Protection & Function arallel*** urge protection vervoltage category rotective class rid monitoring for everse polarity protection attery input reverse polarity protection asulation monitoring for switch (PV) ver-heat protection FCI Seneral Data opology (PV/battery) fegree of protection imensions (W*H*D) [mm] | 36500 W / 36500 VA, 10s | 30000 45000 W / 45000 VA, 10s 55000 W / 3*8 97.80 Master-sla Type II , DC II DC an Class Ye Ye Ye Ye Ye OP Transforr IP6 615 * 46 | 40000 60000 W / 60000 VA, 10s 55000 VA 100 98.20 ve mode C and AC d III AC ss s s s s s s s s s | 70000 W / 70000 VA, 10 | |
| ated output power (off-grid mode) [VA] eak output power (off-grid mode)** lax. output power (on-grid mode) lax. output current (on-grid mode) lax. output current (on-grid mode) [A] Efficiency lax. efficiency/European efficiency [%] Protection & Function arallel*** urge protection evervoltage category rotective class rid monitoring IC reverse polarity protection attery input reverse polarity protection sulation monitoring IC short-circuit protection esidual current protection esidual current protection FCI General Data opology (PV/battery) legree of protection imensions (W*H*D) [mm] Veight [kg] | 36500 W / 36500 VA, 10s | 30000 45000 W / 45000 VA, 10s 55000 W / 3*8 97.80 Master-sla Type II , DC II DC an Class Ye Ye Ye Ye Ye OP Transforr IP6 615 * 46 | 40000 60000 W / 60000 VA, 10s 55000 VA 100 98.20 ve mode C and AC d III AC ss I ss s T merless 6 5 * 255 39.5 | 70000 W / 70000 VA, 10 | |
| ated output power (off-grid mode) [VA] eak output power (off-grid mode)** lax. output power (on-grid mode) lax. output current (on-grid mode) lax. output current (on-grid mode) [A] Efficiency lax. efficiency/European efficiency [%] Protection & Function arallel*** urge protection evervoltage category rotective class rid monitoring IC reverse polarity protection attery input reverse polarity protection sulation monitoring IC short-circuit protection esidual current protection C switch (PV) ever-heat protection EFCI General Data opology (PV/battery) legree of protection imensions (W*H*D) [mm] leight [kg] lounting method | 36500 W / 36500 VA, 10s | 30000 45000 W / 45000 VA, 10s 55000 W / 3*8 97.80 Master-sla Type II , DC III DC an Clas Ye Ye Ye Ye Ye Ye Transforr IP6 615 * 46: | 40000 60000 W / 60000 VA, 10s 55000 VA 100 98.20 vve mode C and AC d III AC ss I ss s T T merless 6 5 * 255 39.5 ng bracket | 70000 W / 70000 VA, 10 | |
| ated output power (off-grid mode) [VA] eak output power (off-grid mode)** lax. output power (on-grid mode) lax. output current (on-grid mode) lax. output current (on-grid mode) [A] ifficiency lax. efficiency/European efficiency [%] Protection & Function arallel*** urge protection vervoltage category rotective class rid monitoring C reverse polarity protection attery input reverse polarity protection issulation monitoring C short-circuit protection esidual current protection C switch (PV) ver-heat protection FCI General Data opology (PV/battery) egree of protection imensions (W*H*D) [mm] //eight [kg] lounting method perating ambient temperature range [°C] llowable relative humidity range | 36500 W / 36500 VA, 10s | 30000 45000 W / 45000 VA, 10s 55000 W / 3*8 97.80 Master-sla Type II , DC III DC an Clas Ye Ye Ye Ye Ye OP Transforr IP6 615 * 46: Wall-mounti -25-60 (Derati | 40000 60000 W / 60000 VA, 10s 55000 VA 100 98.20 ve mode C and AC d III AC ss I ss s T merless 6 5 * 255 39.5 ng bracket ng above 45) | 70000 W / 70000 VA, 10 | |
| ated output power (off-grid mode) [VA] eak output power (off-grid mode)** lax. output power (on-grid mode) lax. output current (on-grid mode) lax. output current (on-grid mode) [A] ifficiency lax. efficiency/European efficiency [%] Protection & Function arallel*** urge protection vervoltage category rotective class rid monitoring C reverse polarity protection attery input reverse polarity protection esidual current protection C switch (PV) ver-heat protection FCI General Data Opology (PV/battery) egree of protection imensions (W*H*D) [mm] leight [kg] lounting method perating ambient temperature range [°C] llowable relative humidity range Non-condensing) [%] | 36500 W / 36500 VA, 10s | 30000 45000 W / 45000 VA, 10s 55000 W / 3*8 97.80 Master-sla Type II , DC II DC an Clas Ye Ye Ye Ye OP Transforr IP6 615 * 46 3 Wall-mounti -25-60 (Derati | 40000 60000 W / 60000 VA, 10s 55000 VA 100 98.20 ve mode C and AC d III AC sis I s s s T merless 6 5 * 255 39.5 ng bracket ng above 45) 00 | 70000 W / 70000 VA, 10 | |
| ated output power (off-grid mode) [VA] eak output power (off-grid mode)** lax. output power (on-grid mode) lax. output current (on-grid mode) lax. output current (on-grid mode) [A] ifficiency lax. efficiency/European efficiency [%] Protection & Function arallel*** urge protection vervoltage category rotective class rid monitoring C reverse polarity protection attery input reverse polarity protection sulation monitoring C short-circuit protection esidual current protection C switch (PV) ver-heat protection FCI Seneral Data Dopology (PV/battery) egree of protection imensions (W*H*D) [mm] leight [kg] lounting method perating ambient temperature range [°C] llowable relative humidity range looling method | 36500 W / 36500 VA, 10s | 30000 45000 W / 45000 VA, 10s 55000 W / 3*8 97.80 Master-sla Type II , DC II DC an Clas Ye Ye Ye Ye Ye 10 Ye 11 Ye 11 Ye 11 Ye 12 Ye 14 Ye 15 Ye 16 Ye 17 Ye 17 Ye 18 Ye 19 Y | 40000 60000 W / 60000 VA, 10s 55000 VA 100 98.20 ve mode C and AC d III AC sis I s s s T merless 6 5 * 255 39.5 ng bracket ng above 45) 00 | 70000 W / 70000 VA, 10 | |
| atted output power (off-grid mode) [VA] eak output power (off-grid mode)** lax. output power (on-grid mode) lax. output current (on-grid mode) lax. output current (on-grid mode) [A] Efficiency lax. efficiency/European efficiency [%] Protection & Function arallel*** urge protection evervoltage category rotective class rid monitoring IC reverse polarity protection attery input reverse polarity protection suclation monitoring IC short-circuit protection esidual current protection esidual current protection FCI General Data opology (PV/battery) legree of protection imensions (W*H*D) [mm] Veight [kg] lounting method loise (Typical) | 36500 W / 36500 VA, 10s | 30000 45000 W / 45000 VA, 10s 55000 W / 3*8 97.80 Master-sla Type II , DC II DC an Class Ye Ye Ye Ye Ye 10 Ye 11 Ye 11 Ye 11 Ye 12 Ye 14 Ye 15 Ye 16 Ye 17 Ye 17 Ye 18 Ye 19 | 40000 60000 W / 60000 VA, 10s 55000 VA 100 98.20 ve mode C and AC d III AC is I s s s T merless 6 5 * 255 39.5 ng bracket ng above 45) 00 oling | 70000 W / 70000 VA, 10 | |
| ated output power (off-grid mode) [VA] eak output power (off-grid mode)** lax. output power (on-grid mode) lax. output current (on-grid mode) lax. output current (on-grid mode) [A] ifficiency lax. efficiency/European efficiency [%] Protection & Function arallel*** urge protection vervoltage category rotective class rid monitoring C reverse polarity protection attery input reverse polarity protection sulation monitoring C short-circuit protection esidual current protection C switch (PV) ver-heat protection FCI General Data Dopology (PV/battery) egree of protection imensions (W*H*D) [mm] leight [kg] lounting method perating ambient temperature range [°C] llowable relative humidity range Non-condensing) [%] ooling method loise (Typical) lax. operating altitude [m] | 36500 W / 36500 VA, 10s | 30000 45000 W / 45000 VA, 10s 55000 W / 3*8 97.80 Master-sla Type II , DC III DC an Clas Ye Ye Ye Ye Ye OP Transforr IP6 615 * 46: 3 Wall-mounti -25-60 (Derati 0-10 Fan co | 40000 60000 W / 60000 VA, 10s 55000 VA 100 98.20 vve mode C and AC d III AC ss I ss s s T T merless 6 5 * 255 39.5 ng bracket ng above 45) 00 oling | 70000 W / 70000 VA, 10 / 97.90 | |
| ated output power (off-grid mode) [VA] eak output power (off-grid mode)** Iax. output power (on-grid mode) Iax. output current (on-grid mode) Iax. output current (on-grid mode) [A] Efficiency Iax. efficiency/European efficiency [%] Protection & Function arallel*** urge protection Invervoltage category | 36500 W / 36500 VA, 10s | 30000 45000 W / 45000 VA, 10s 55000 W / 3*8 97.80 Master-sla Type II , DC III DC an Clas Ye Ye Ye Ye Ye Ye A Ye A Ye A Ye A Ye | 40000 60000 W / 60000 VA, 10s 55000 VA 100 98.20 vve mode C and AC d III AC ss I ss s s T T mereless 6 5 * 255 39.5 ng bracket ng above 45) 00 ooling | 70000 W / 70000 VA, 10 / 97.90 | |
| ated output power (off-grid mode) [VA] eak output power (off-grid mode)** lax. output power (on-grid mode) lax. output current (on-grid mode) lax. officiency lax. efficiency lax. efficiency/European efficiency [%] Protection & Function arallel*** urge protection vervoltage category rotective class rid monitoring C reverse polarity protection attery input reverse polarity protection sulation monitoring C short-circuit protection esidual current protection C switch (PV) ver-heat protection FCI beneral Data popology (PV/battery) egree of protection imensions (W*H*D) [mm] leight [kg] lounting method perating ambient temperature range [°C] llowable relative humidity range loun-condensing) [%] louoling method oise (Typical) lax. operating altitude [m] isplay ommunication | 36500 W / 36500 VA, 10s | 30000 45000 W / 45000 VA, 10s 55000 W / 3*8 97.80 Master-sla Type II , Df III DC an Clas Ye Ye Ye Ye Ye Ye A Ye Ye A Ye A Ye A | 40000 60000 W / 60000 VA, 10s 55000 VA 10 98.20 ve mode C and AC d III AC ss I ss s s T merless 6 5 * 255 39.5 ng bracket ng above 45) 00 oling 00 CAN/WLAN | 70000 W / 70000 VA, 10 | |
| ated output power (off-grid mode) [VA] eak output power (off-grid mode)** flax. output power (on-grid mode) flax. output current (on-grid mode) flax. output current (on-grid mode) [A] ifficiency flax. efficiency/ flax. efficiency/European efficiency [%] Protection & Function arallel*** urge protection flowervoltage category rotective class rid monitoring flor reverse polarity protection attery input reverse polarity protection sulation monitoring flor switch (PV) flower-heat protection flore of protection flore of protection flower-heat protection flower-incompants flore | 36500 W / 36500 VA, 10s | 30000 45000 W / 45000 VA, 10s 55000 W / 3*8 97.80 Master-sla Type II , Df III DC an Clas Ye Ye Ye Ye Ye Ye A Ye A Ye A Ye A Ye | 40000 60000 W / 60000 VA, 10s 55000 VA 10 98.20 ve mode C and AC d III AC ss I ss s s T merless 6 5 * 255 39.5 ng bracket ng above 45) 00 oling 00 CAN/WLAN D/DRM0 | 70000 W / 70000 VA, 10 / 97.90 | |
| ated output power (off-grid mode) [VA] eak output power (off-grid mode)** lax. output power (on-grid mode) lax. output current (on-grid mode) lax. output current (on-grid mode) [A] ifficiency lax. efficiency/European efficiency [%] Protection & Function arallel*** urge protection vervoltage category rotective class rid monitoring C reverse polarity protection attery input reverse polarity protection sulation monitoring C short-circuit protection c Switch (PV) ver-heat protection FCI General Data opology (PV/battery) egree of protection imensions (W*H*D) [mm] /eight [kg] lounting method operating ambient temperature range [°C] llowable relative humidity range Non-condensing) [%] ooling method oise (Typical) lax. operating altitude [m] isplay ommunication l/DO C connection type | 36500 W / 36500 VA, 10s | 30000 45000 W / 45000 VA, 10s 55000 W / 3*8 97.80 Master-sla Type II , DG III DC an Clas Ye Ye Ye Ye Ye OP Transforr IP6 615 * 46 3 Wall-mounti -25-60 (Derati 0-10 Fan co 55 dB (A) 200 LET 2*RS485/2*C 4*DI/2*DG MC4 (PV, Ma | 40000 60000 W / 60000 VA, 10s 55000 VA 100 98.20 ve mode C and AC d III AC ss I ss s s s T merless 6 5 * 255 39.5 ng bracket ng above 45) 00 oling 00 D CAN/WLAN D/DRM0 ix. 6 mm²) | 70000 W / 70000 VA, 10 / 97.90 | |
| Rated output power (off-grid mode) [VA] Peak output power (off-grid mode)** Max. output power (on-grid mode) Max. output current (on-grid mode) [A] Efficiency Max. efficiency/European efficiency [%] Protection & Function Parallel*** Burge protection Povervoltage category Protective class Firid monitoring Of reverse polarity protection Buttery input reverse polarity protection Insulation monitoring Of Short-circuit protection Residual current protection Residual current protection Residual current protection | 36500 W / 36500 VA, 10s | 30000 45000 W / 45000 VA, 10s 55000 W / 3*8 97.80 Master-sla Type II , Df III DC an Clas Ye Ye Ye Ye Ye Ye A Ye A Ye A Ye A Ye | 40000 60000 W / 60000 VA, 10s 55000 VA 10 98.20 ve mode C and AC d III AC ss I ss s s s s s s s s s s s s s s s c s s s s s s s s s s s s s s s s s s s s | 70000 W / 70000 VA, 10 / 97.90 | |

 $[\]ensuremath{^{\star}}$ 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



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Full range product: 10kV -1,000kV

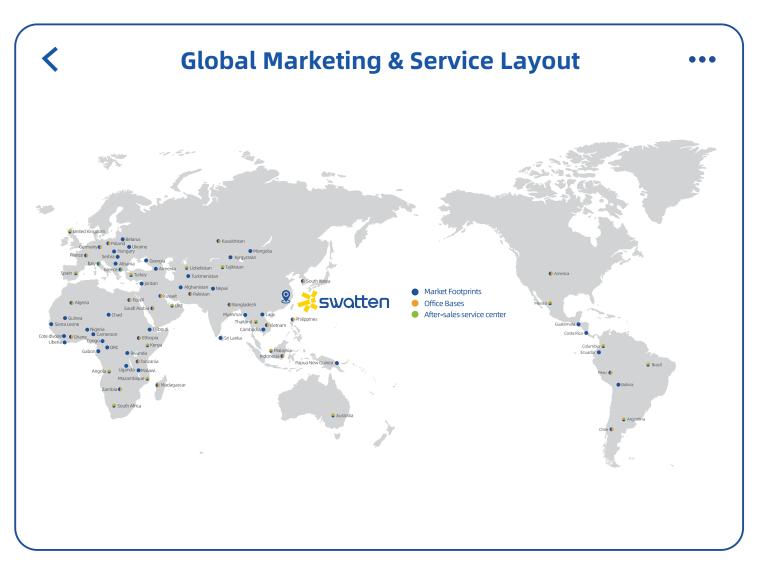
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