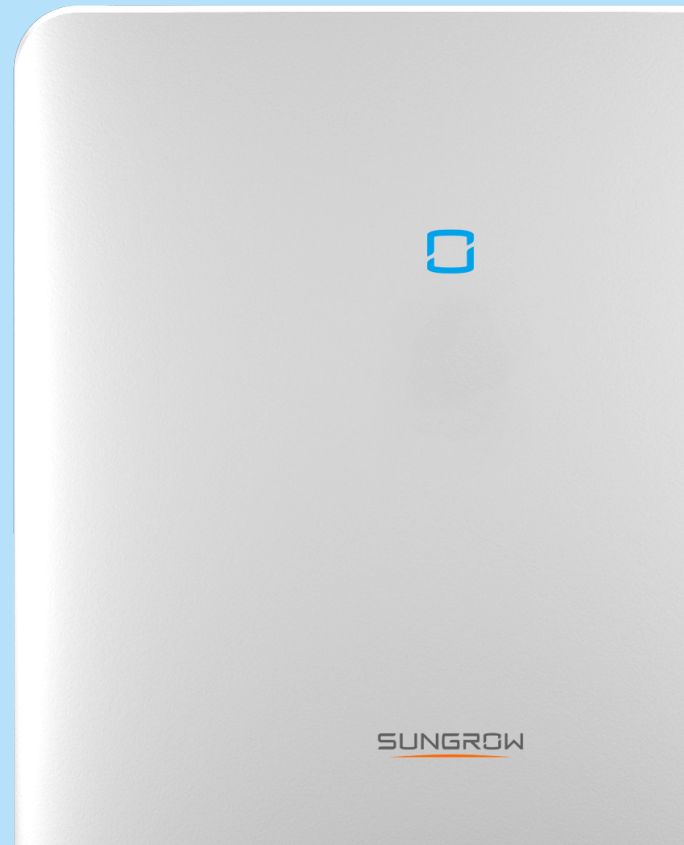


The 3-phase Hybrid

UNIQUE IN
ITS **FAST**
INSTALLATION



EXTERNAL CONNECTORS

No need to open the inverter, resulting in a less time-consuming installation.



GENEROUS CONNECTION AREA

More space for all connectors thanks to a clean and easy to access connection panel.



INTEGRATED SPIRIT LEVEL

More fun mounting the inverter on the wall. Always in balance, making a good impression.

FOR ALL. WHO WANT MORE.



MORE ENERGY SECURITY

Integrated emergency power function for a seamless change into battery operation with real 3-phase stand-alone network.

MORE INDEPENDENCE

No compromises needed. Network-independent thanks to stand-alone supply, if necessary, all year long.

MORE PLANNING SECURITY

A heat pump can easily be connected to the new 3-phase hybrid, thanks to SG-Ready function.

MORE COMFORT

20% of additional power for 5 minutes. For more security of supply and less blown fuses at home.

MORE FLEXIBILITY

Capable of supporting fully unbalanced loads. With three independent phases, a blackout won't cause headaches anymore.

MORE SMART HOME

Convenient use of solar energy. Charging the electric vehicle* and raising the internal consumption and increasing transparency.

[LEARN MORE AT WWW.SUNGROWPOWER.COM](http://WWW.SUNGROWPOWER.COM)

MORE HARD FACTS.

SH5.0RT/SH6.0RT/SH8.0RT/SH10RT

| Type designation | SH5.0RT | SH6.0RT | SH8.0RT | SH10RT |
|--|---|---|--|---------------------------|
| PV Input | | | | |
| Max. PV input power | 7500 W | 9000 W | 12000 W | 15000 W |
| Max. PV input voltage | | | 1000 V | |
| Startup voltage | 180 V | 250 V | 250 V | 250 V |
| Nominal input voltage | | | 600 V | |
| MPP voltage range | 150 V - 950 V | 200 V - 950 V | 200 V - 950 V | 200 V - 950 V |
| MPP voltage range for nominal power | 210 V - 850 V | 250 V - 850 V | 330 V - 850 V | 280 V - 850 V |
| No. of MPPTs | | | 2 | |
| Max. number of PV strings per MPPT | 1/1 | 1/1 | 1/1 | 1/2 |
| Max. PV input current | | | 25 A (12.5 A / 12.5 A) | |
| Max. current for input connector | | | 16 A | |
| Short-circuit current of PV input | 32 A (16 A / 16 A) | 32 A (16 A / 16 A) | 32 A (16 A / 16 A) | 48 A (16 A / 32 A) |
| AC Input and Output | | | | |
| Nominal AC output power | 5000 W | 6000 W | 8000 W | 10000 W |
| Nominal AC output current | 7.3 A | 8.7 A | 11.6 A | 14.5 A |
| Max. AC output apparent power | 5000 VA | 6000 VA | 8000 VA | 10000 VA |
| Max. AC output current | 7.6 A | 9.1 A | 12.1 A | 15.2 A |
| Nominal AC voltage | | 3 / N / PE, 220 / 380 V; 230 / 400 V; 240 / 415 V | | |
| AC voltage range | | 270 - 480 V | | |
| Nominal grid frequency / Grid frequency range | | 50 Hz / 45 - 55 Hz, 60 Hz / 55 - 65 Hz | | |
| THD | | <3 % (of nominal power) | | |
| DC current injection | | <0.5 % I _n | | |
| Power factor | | >0.99 / 0.8 leading to 0.8 lagging | | |
| Protection | | | | |
| LVRT | | | Yes | |
| Anti-islanding protection | | | Yes | |
| AC short circuit protection | | | Yes | |
| Leakage current protection | | | Yes | |
| DC switch (solar) | | | Yes | |
| DC fuse (battery) | | | Yes | |
| Overvoltage category | | | III [MAINS], II [PV] [BATTERY] | |
| SPD | | | DC Type II / AC Type II | |
| Battery Data | | | | |
| Battery type | | | Li-ion battery | |
| Battery voltage | | | 150 V - 600 V | |
| Max charge / discharge current | | | 30 A* / 30 A* | |
| Max charge / discharge power | 7500 W / 6000 W | 9000 W / 7200 W | 10600 W / 10600 W | 10600 W / 10600 W |
| System Data | | | | |
| Max. efficiency | 98.0% | 98.2% | 98.4% | 98.4% |
| European efficiency | 97.2% | 97.5% | 97.9% | 97.9% |
| Isolation method (solar / battery) | | | Transformerless / Transformerless | |
| Ingress protection rating | | | IP65 | |
| Operating ambient temperature range | | | -25 °C - 60 °C | |
| Allowable relative humidity range (non-condensing) | | | 0% - 100% | |
| Cooling method | | | Natural convection | |
| Max. operating altitude | | | 4000 m (>3000 m derating) | |
| Noise (Typical) | | | 30dB (A) | |
| Display | | | LED | |
| Communication | | | RS485, WLAN, Ethernet, CAN, 4×DI, 1×DO | |
| DC connection type | | | MC4 (PV) / Sunclix (Battery) | |
| AC connection type | | | Plug and play connector | |
| Compliance | | | IEC / EN 62109-1, IEC / EN 62109-2, IEC / EN 61000-6-1, IEC / EN 61000-6-3, IEC / EN 61000-3, EN 62477-1, VDE-AR-N-4105, AS / NZS 4777.2 | |
| Mechanical Data | | | | |
| Dimensions (W * H * D) | | | 460 * 540 * 170 mm | |
| Mounting method | | | Wall-mounting bracket | |
| Weight | | | 27 kg | |
| Backup Data | | | | |
| Nominal voltage | | | 3 / N / PE, 220 Vac / 230 Vac / 240 Vac | |
| Frequency range | | | 50Hz / 60Hz | |
| Total harmonic factor output voltage | | | 2% | |
| Switch time to emergency mode | | | < 20ms | |
| Nominal output power | 5000 W / 5000 VA | 6000 W / 6000 VA | 8000 W / 8000 VA | 10000 W / 10000 VA |
| Peak output power | 6000 W / 6000 VA, 5 min 10000 W / 10000 VA, 10 s | 7200 W / 7200 VA, 5 min 10000 W / 10000 VA, 10 s | 12000 W / 12000 VA, 5 min | 12000 W / 12000 VA, 5 min |
| Parallel operation | | | Yes / 2 | |

* Depending on the connected battery