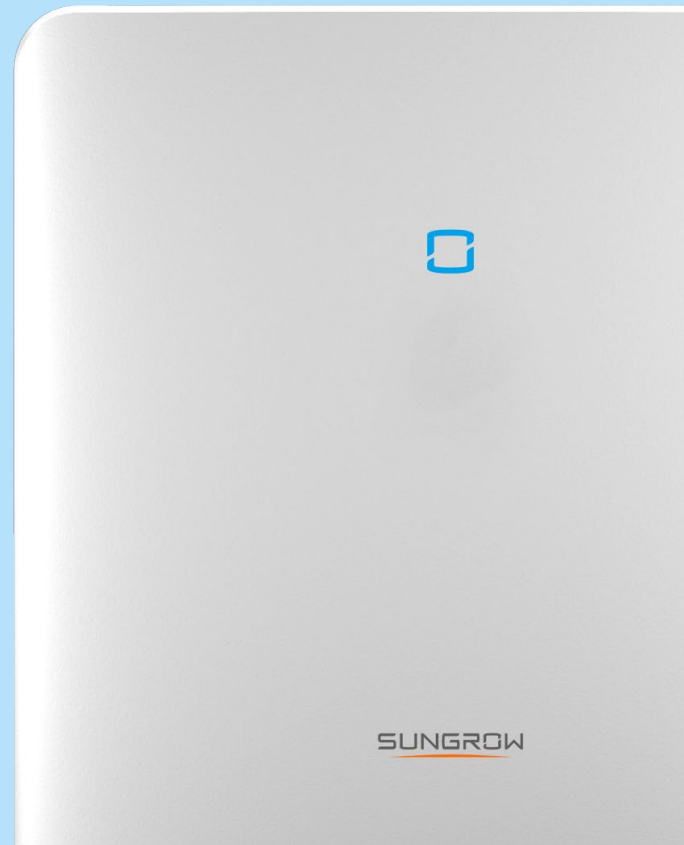


The 3-phase Hybrid

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 area.



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 100 % unbalanced loads. With 3 independent phases on the new hybrid a blackout won't cause headaches anymore.

MORE SMART HOME

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

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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	1000 V	1000 V	1000 V
Startup voltage	180 V	250 V	250 V	250
Nominal input voltage	600 V	600 V	600 V	600 V
MPP voltage range	150 V - 1000 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	2	2	2
Max. number of PV strings per MPPT	1 / 1	1 / 1	1 / 1	1 / 2
Max. PV input current	12.5 A / 12.5 A	12.5 A / 12.5 A	12.5 A / 12.5 A	12.5 A / 25 A
Max. current for input connector			16 A	
Short-circuit current of PV input	16 A / 16 A	16 A / 16 A	16 A / 16 A	16 A / 32 A
AC Input and Output				
Max. AC apparent power	5000 VA	6000 VA	8000 VA	10000 VA
Nominal AC output current	7.3 A	8.7 A	11.6 A	14.5 A
Max. AC output current	8.5 A	10 A	13.5 A	17 A
Nominal AC voltage		3 / N / PE, 220 / 380 V; 230 / 400 V; 240 / 415 V		
AC voltage range		270 - 480 Vac		
Nominal grid frequency		50 Hz / 60 Hz		
Grid frequency range		45 - 55 Hz / 55 - 65 Hz		
THD		<3 % (of nominal power)		
DC current injection		<0.5 % (of nominal current)		
Power factor		>0.99 at default value at nominal power (adj. 0.8 overexcited / leading o 0.8 underexcited / 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 Protection			DC Type II / AC Type II	
Battery Data				
Battery type			Li-ion battery	
Battery voltage			150 V - 600 V	
Max charge / discharge current			25 A / 25 A	
Max charge / discharge power	7500 / 6600 W	9000 / 7200 W	10600 / 10600 W	10600 / 10600 W
System Data				
Max. efficiency / European efficiency	98.0 % / 97.2 %	98.2 % / 97.5 %	98.4 % / 97.9 %	98.4 % / 97.9 %
Max. charge / discharge efficiency			98.5 %	
Isolation method solar / battery			Transformerless / Transformerless	
Ingress protection rating			IP65	
Operating ambient temperature range			-25 °C - 60 °C (>45 °C derating)	
Allowable relative humidity range			0% - 100 % (non-condensing)	
Cooling method			Natural convection	
Max. operating altitude			4000 m (>2000 m derating)	
Display			LED	
Communication			RS485, WLAN, Ethernet, 1 * Digital Output, 4 * Digital Input	
DC connection type			MC4 (solar) / Sunclix (battery) / 4 - 6 mm ²	
AC connection type			Plug and play connector / 6 - 10 mm ²	
Compliance			IEC / EN 62109-1, IEC / EN 62109-2, IEC / EN 61000-3-11, IEC / EN 61000-3-12, EN 62477-1, VDE0126-1-1 / 4105, CEI 0-21, AS 4777.2, EN50438	
Mechanical Data				
Dimensions (W x H x D)			460 x 540 x 170 mm	
Mounting method			Wall-mounting bracket	
Weight			26 kg	
Backup Data				
Nominal voltage			220 Vac / 230 Vac / 240 Vac (±0.2 %)	
Frequency range			50 Hz / 60 Hz (±0.2 %)	
Total harmonic factor output voltage			2 % (full resistive load)	
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
	100 % unbalanced load	100 % unbalanced load	100 % unbalanced load	100 % unbalanced load
Peak output power	6000 W / 6000 VA, 5 min	7200 W / 7200 VA, 5 min	12000 W / 12000 VA, 5 min	12000 W / 12000 VA, 5 min
	10000 W / 10000 VA, 10 s	10000 W / 10000 VA, 10 s		
Parallel operation			Yes	