

Single Phase Hybrid/AC Inverter - Flexible, Compact and Powerful



Lightweight and
compact design



Easy installation and
Minimize costs



IP65 water and
dust proof



Smart cloud
monitoring

Technical Specifications

Model	SP R3KH1-G2 SP R3KAC1-G2	SP R3.7KH1-G2 SP R3.7KAC1-G2	SP R4.6KH1-G2 SP R4.6KAC1-G2	SP R5KH1-G2 SP R5KAC1-G2	SP R6KH1-G2 SP R6KAC1-G2	SP R4.6KH1-B-G2 SP R4.6KAC1-B-G2	SP R5KH1-B-G2 SP R5KAC1-B-G2
INPUT PV (ONLY FOR HYBRID)							
Max. Input Power [W]	4500 A:2250 B:2250	5500 A:2750 B:2750	6900 A:3450 B:3450	7500 A:3750 B:3750	9000 A:4500 B:4500	6900 A:3450 B:3450	7500 A:3750 B:3750
Max. Input Voltage [V]	600						
Start-up Input Voltage [V]	75						
Rated Input Voltage [V]	360						
MPPT Operating Voltage Range [V]	80-550						
Max. Input Current [A]	16/16						
Max. Short-circuit Current [A]	20/20						
No. of Independent MPPT Trackers	2						
No. of Strings per MPPT Tracker	1						
BATTERY DATA							
Battery Type	Lithium Battery (LFP)						
Battery Voltage Range [V]	80-480						
Max. Charge/Discharge Current [A]	40						
Communication Interface	CAN(Communicate With Inverter, upgrade BMS)						
AC INPUT AND OUTPUT (GRID)							
Max. AC Input Power [VA]	6000	7680	9200	10000	12000	9200	10000
Max. AC Input Current (per phase) [A]	27.3	34.9	41.8	45.5	54.5	41.8	45.5
Rated Output Power [W]	3000	3680	4600	5000	6000	4600	5000
Max. Output Apparent Power [VA]	3300	4048/3680 ¹	5060	5500	6600	4600	5000
Rated Output Current (per phase) [A]	13.6	16.7/16 ¹	20.9	22.7	27.3	20.9	22.7
Rated Output Current (per phase,For AUS)	13.0	16.0	20.0	21.7	26.1	20.0	21.7
Max. Output Current [A]	15.0	18.4	23.0	25.0	30.0	20.9	22.7
Rated Grid Voltage [V]	220/230/240						
Rated Grid Frequency [Hz]	50/60						
Power Factor	1 (Adjustable from 0.8 leading to 0.8 lagging)						
THDI	<3 @rated Dower						
BACKUP POWER							
Max. Output Apparent Power [VA]	3000	3680	4600	5000	6000	4600	5000
Peak Output Apparent Power (60s) [VA]	3600	4400	5500	6000	7200	5500	6000
Max. Current (per phase) [A]	13.6	16.7	20.9	22.7	27.3	20.9	22.7
Rated Output Voltage [V]	220/230/240						
Rated Output Frequency [Hz]	50/60						
Power Factor	1 (Adjustable from 0.8 leading to 0.8 lagging)						
THDv (linear Load)	<2 @rated power						
Switch time [ms]	<20						
Parallel operation [PCS]	10						
EFFICIENCY							
Euro Efficiency	95.26%	95.70%	96.23%	96.30%	96.33%	96.233%	96.30%
Max. Efficiency	97.01%	97.08%	97.04%	97.08%	97.08%	97.04%	97.08%
Max. Battery Charge Efficiency(PV to BAT) (@full load)	98.50%						
Max. Battery Discharge Efficiency(BAT to AC) (@full load)	97.00%						
PROTECTION DEVICES							
Insulation Monitoring	YES						
Residual Current Monitoring	YES						
DC Reverse Polarity Protection	YES						
Anti-islanding Protection	YES						
AC Short-circuit Protection	YES						
AC Overcurrent/Overvoltage Protection	YES						
DC Switch	YES						
SPD	DC: Type II, /AC: Type III						
AFCI	Optional						
GENERAL DATA							
Demensions (WxHxD) [mm]	430*410*178						
Weight [kg]	22.5						
Installation	Wall-Mounted						
Topology	Transformerless						
Cooling Method	Natural						
Noise Emission [dB]	35						
Max. Operating Altitude [m]	2000						
Operating Temperature Range [°C]	-25 to 60						
Humidity (No Condensation)	0% to 100%						
Protection Degree	IP65						
Standby consumption [W]	<10						
Monitoring Module	WiFi, LAN(Optional), 4G(Optional), GPRS (Optional)						
Communication	RS485, DRM, Ripple Control, USB						
Display	LCD. App. Website						
CERTIFICATION (MORE AVAILABLE UPON REQUEST)							

* Further technical features are available upon request and customized.
1. 3680 for G98. 2. 4600 for Germany and Belgium. 3. 5000 for Australia and Belgium.