

PV (DC)	SP1S-3P3K-H	SP1S-3P4K-H	SP1S-3P5K-H	SP1S-3P6K-H
Recommended Max. PV Input Power	4500 W	6000 W	7500 W	9000 W
Max. Input Voltage*		1000 V		
Start-up Voltage		135 V		
Rated Input Voltage		600 V		
MPPT Input Voltage Range*		135-900 V		
MPPT Max. Input Current		16 A / 16 A		
MPPT Short-circuit Current		20 A / 20 A		
No. of MPPT		2		
No. of Strings per MPPT		1 / 1		

Grid (AC)

Max. Input Apparent Power**	6000 VA	8000 VA	10000 VA	12000 VA
Rated Output Power	3000 W	4000 W	5000 W	6000 W
Max. Output Apparent Power	3300 VA	4400 VA	5500 VA	6600 VA
Rated AC Voltage	3L/N/PE, 220/380 V, 230/400 V			
Input/Output Voltage Range	180-300 V/312-519 V; 200-253 V/347-438 V			
Rated Output Voltage Frequency	50 / 60 Hz			
Input/Output Voltage Frequency Range	(45-55) ; (55-65) Hz			
Rated Output Current	4.35 A	5.8 A	7.2 A	8.7 A
Max. Input/Output Current	9.1 A / 5.9 A	12.12 A / 7.88 A	15.2 A / 9.8 A	18.2 A / 11.8 A
Power Factor (Rated)	>0.99			
Power Factor (Adjustable)	0.8 leading ... 0.8 lagging			
Total Harmonic Distortion	<3% (Rated Power)			
Grid Connection Mode	3L/N/PE			

AC Load Output (Off-grid)

Rated Output Power	3000 W	4000 W	5000 W	6000 W
Max. Output Apparent Power	3300 VA	4400 VA	5500 VA	6600 VA
Rated AC Voltage	3L/N/PE, 220/380 V, 230/400 V			
Output Voltage Range	200-253V/347-438V			
Rated Output Frequency	50/60 Hz			
Rated Output Current	4.35 A	5.8 A	7.2 A	8.7 A
Max. Output Current	5.9 A	7.88 A	9.8 A	11.8 A
Total Harmonic Distortion	<3% (R Load)			
On-grid/Off-grid Switching Time	<10 ms			

Battery (DC)

Rated Output Power	3000 W	4000 W	5000 W	6000 W
Max.Charge/Discharge Power	12500 W / 3300 W	12500 W / 4400 W	12500 W / 5500 W	12500 W / 6600 W
Rated Voltage	200 V	200 V	200 V	240 V
Battery Voltage Range	135-800 V			
Max. Charge/Discharge Current	25 A / 25 A	25 A / 25 A	25 A / 25 A	25 A / 25 A
Communication Port	CAN / RS485			

Efficiency

Max. Efficiency	97.6%
Max. MPPT Efficiency	99.9%
Max. Euro Efficiency	97.0%

Protection

Integrated Protection	Anti-flow Protection, PV DC Reverse Protection, DC Circuit Breaker, Insulation Resistor Detection, Leakage Current Monitoring, AC Output Short Circuit Protection, Output Over Current Protection, Grid Monitoring, Anti-islanding Protection, Residual Current Monitoring, Battery Reverse Polarity Protection, Off-grid Overload Protection.
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Surge Protection	DC Type II, AC Type II
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General Data

Dimensions (WxHxD)	516x442x222 mm
Weight	24 kg
Operating Temperature Range	-30~60 °C
Noise	<30 dB
Cooling	Smart fan
Protection Rating	IP66
Communication	Yes: RS485 / USB , Optional: 4G / WiFi
Warranty	5 Years (10 Years Optional)

Standards Compliance

Grid Connection	EN 50549-1, CEI 0-21, AS 4777.2, G98/G99, EN 50438, IEC 62109-1/2, VDE 4105, VDE 0126
Safety Regulation	EN/IEC 62109-1/2
Others	EN/IEC 61000-6-1/2/3/4

* Max. DC input voltage is 1000V without battery, 800V with battery. If the voltage is greater than the maximum, the inverter is in standby state.

** Max. grid input power refers to the max. power drawn from the grid, including the supply of off-grid load and battery charging.

PV (DC)	SP1S-3P8K-H	SP1S-3P10K-H	SP1S-3P12K-H	SP1S-3P15K-H
Recommended Max. PV Input Power	10000 W	15000 W	18000 W	22500 W
Max. Input Voltage*		1000 V		
Start-up Voltage		135 V		
Rated Input Voltage		600 V		
MPPT Input Voltage Range*		135-900 V		
MPPT Max. Input Current		16 A / 32 A		
MPPT Short-circuit Current		20 A / 40 A		
No. of MPPT		2		
No. of Strings per MPPT	1 / 1		1 / 2	

Grid (AC)

Max. Input Apparent Power**	16000 VA	20000 VA	24000 VA	30000 VA
Rated Output Power	8000 W	10000 W	12000 W	15000 W
Max. Output Apparent Power	8800 VA	11000 VA	13200 VA	16500 VA
Rated AC Voltage	3L/N/PE, 220/380 V, 230/400 V			
Input/Output Voltage Range	180-300 V/312-519 V; 200-253 V/347-438 V			
Rated Output Voltage Frequency	50 / 60 Hz			
Input/Output Voltage Frequency Range	(45-55) ; (55-65) Hz			
Rated Output Current	11.6 A	14.5 A	17.4 A	22.5 A
Max. Input/Output Current	24.2 A / 15.8 A	30.3 A / 19.7 A	36.4 A / 23.6 A	45.45 A / 29.25 A
Power Factor (Rated)	>0.99			
Power Factor (Adjustable)	0.8 leading ... 0.8 lagging			
Total Harmonic Distortion	<3% (Rated Power)			
Grid Connection Mode	3L/N/PE			

AC Load Output (Off-grid)

Rated Output Power	8000 W	10000 W	12000 W	15000 W
Max. Output Apparent Power	8800 VA	11000 VA	13200 VA	16500 VA
Rated Output Voltage	3L/N/PE, 220/380 V, 230/400 V			
Output Voltage Range	200-253V/347-438V			
Rated Output Frequency	50/60 Hz			
Rated Output Current	11.6 A	14.5 A	17.4 A	22.5 A
Max. Output Current	15.8 A	19.7 A	23.6 A	29.25 A
Total Harmonic Distortion	<3% (R Load)			
On-grid/Off-grid Switching Time	<10 ms			

Battery (DC)

Rated Output Power	8000 W	10000 W	12000 W	15000 W
Max.Charge/Discharge Power	12500 W / 8800 W	12500 W / 11000 W	12500 W / 13200 W	15000 W / 16500 W
Rated Voltage	320 V	400 V	480 V	480 V
Battery Voltage Range	135-800 V			
Max. Charge/Discharge Current	25 A / 25 A	25 A / 25 A	25 A / 25 A	50 A / 50 A
Communication Port	CAN / RS485			

Efficiency

Max. Efficiency	97.6%
Max. MPPT Efficiency	99.9%
Max. Euro Efficiency	97.0%

Protection

Integrated Protection	Anti-flow Protection, PV DC Reverse Protection, DC Circuit Breaker, Insulation Resistor Detection, Leakage Current Monitoring, AC Output Short Circuit Protection, Output Over Current Protection, Grid Monitoring, Anti-islanding Protection, Residual Current Monitoring, Battery Reverse Polarity Protection, Off-grid Overload Protection.
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Surge Protection	DC Type II, AC Type II
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General Data

Dimensions (WxHxD)	516x442x222 mm
Weight	24 kg
Operating Temperature Range	-30~60 °C
Noise	<30 dB
Cooling	Smart fan
Protection Rating	IP66
Communication	Yes: RS485 / USB , Optional: 4G / WiFi
Warranty	5 Years (10 Years Optional)

Standards Compliance

Grid Connection	EN 50549-1, CEI 0-21, AS 4777.2, G98/G99, EN 50438, IEC 62109-1/2, VDE 4105, VDE 0126
Safety Regulation	EN/IEC 62109-1/2
Others	EN/IEC 61000-6-1/2/3/4

* Max. DC input voltage is 1000V without battery, 800V with battery. If the voltage is greater than the maximum, the inverter is in standby state.

** Max. grid input power refers to the max. power drawn from the grid, including the supply of off-grid load and battery charging.