

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



Lightweight and
compact design



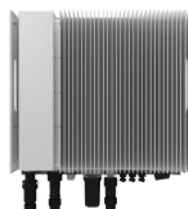
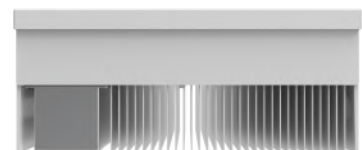
Easy installation and
Minimize costs



IP65 water and
dust proof



Smart cloud
monitoring



Technical Specifications

Model	SP R3KH1-G2	SP R3.7KH1-G2	SP R4.6KH1-G2	SP R5KH1-G2	SP R6KH1-G2
	SP R3KAC1-G2	SP R3.7KAC1-G2	SP R4.6KAC1-G2	SP R5KAC1-G2	SP R6KAC1-G2
INPUT PV (ONLY FOR HYBRID)					
Max. Input Power [W]	3900	4680	5980	6500	7800
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)		13.5/13.5			
Max. Short-circuit Current [A]		15/15			
No. of Independent MPPT Trackers	2	2	2	2	2
No. of Strings per MPPT Tracker	1	1	1	1	1
BATTERY CONNECTION					
Battery Type	Lithium Battery (LFP)				
Battery Voltage Range(V)	85-450				
Max. Charge/Discharge Current (A)	40				
Communication Interface	CAN(Communicate With Inverter), RS485 (Upgrade BMS)				
AC INPUT AND OUTPUT (GRID)					
Max. AC Input Power (VA)	7000	7680	9600	10000	12000
Max. AC Input Current (per phase) [A]	31.8	34.9	4306	45.5	54.5
Rated Output Power [W]	3000	3680	4600	5000	6000
Max. Output Apparent Power (VA)	3300	1042	5060	5500	6600
Rated Output Current (per phase) [A]	13	16	20	21.7	26.1
Max. Output Current [A]	14.3	17.6	22	23.9	28.7
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				
EPS OUTPUT					
Max. Output Apparent Power (VA)	5000	5000	6000	6000	6000
Peak Output Apparent Power (60s) [VA]	6000	6000	7200	7200	7200
Max. Current (per phase) [A]	21.7	21.7	26.1	26.1	26.1
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				
EFFICIENCY					
Euro Efficiency	97.00%	97.00%	97.00%	97.00%	97.00%
Max. Efficiency	97.80%	97.80%	97.80%	97.80%	97.80%
Max. Battery Charge Efficiency(PV to BAT) (@full load)	98.50%	98.50%	98.50%	98.50%	98.50%
Max. Battery Discharge Efficiency(BAT to AC) (@full load)	97.00%	97.00%	97.00%	97.00%	97.00%
PROTECTION					
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				
GENERAL DATA					
Dimensions (WxHxD) [mm]	430*410*179				
Weight [kg]	23.5				
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, 4G, GPRS (Optional)				
Communication	2*RS485, DRM, Ripple Control, USB				
Display	LCD. App. Website				
STANDARD COMPLIANCE (MORE AVAILABLE UPON REQUEST)					
Safety	EN 62109-1, EN 62109-2				
EMC	EN 61000-6-2, EN 61000-6-3				
Grid Regulation	CEI 0-21				