

# SIS1 IP65 Series

- Pure sine wave output
- IP65 waterproof and dustproof makes the inverter available for various working conditions
- Self-consumption and Feed-in to the grid
- Programmable supply priority for PV, Battery or Grid
- Built-in communication port for BMS (RS485), Wi-Fi
- User-adjustable charging current and voltage
- Programmable multiple operation modes: Grid-tie, off-grid and grid-tie with backup
- Parallel operation up to 9 units



## SIS1 IP65 Hybrid Inverter with Energy Storage Selection Guide

MODEL	SIS1-6K-H(IP65)	SIS1-8K-H(IP65)
Phase	1-phase in / 1-phase out	
Maximum PV Input Power	7000W	8000W
Rated Output Power	6000VA/6000W	8000VA/8000W
Maximum Charging Power	6000 W	6000W
<b>GRID-TIE OPERATION</b>		
<b>PV INPUT (DC)</b>		
Maximum DC Voltage	550 VDC	550 VDC
Start-up Voltage / Initial Feeding Voltage	120VDC / 150 VDC	
MPPT Voltage Range	120 VDC ~ 450 VDC	120 VDC ~ 450 VDC
Number of MPPT Trackers / Maximum Input Current	1 / 30A	2 / 18A
<b>GRID OUTPUT (AC)</b>		
Nominal Output Voltage	220/230/240 VAC	
Output Voltage Range	184 - 264.5 VAC or 195.5 - 253 VAC or 184 - 264.4 VAC (Selectable)	
Nominal Output Current	26A	34.7A
Power Factor	> 0.99	
<b>EFFICIENCY</b>		
Maximum Conversion Efficiency (DC/AC)	97%	
<b>OFF-GRID OPERATION</b>		
<b>AC INPUT</b>		
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC / 180 VAC	
Acceptable Input Voltage Range	90 - 280 VAC or 170 - 280 VAC	
Frequency Range	50 Hz/60 Hz (Auto sensing)	
Maximum AC Input Current	40 A	60A
<b>PV INPUT (DC)</b>		
Maximum DC Voltage	550 VDC	550 VDC
MPPT Voltage Range	120VDC ~ 450 VDC	120VDC ~ 450 VDC
Number of MPPT Trackers / Maximum Input Current	1 / 30A	2 / 18A
<b>BATTERY MODE OUTPUT (AC)</b>		
Nominal Output Voltage	220/230/240 VAC	
Output Waveform	Pure sine wave	
Efficiency (DC to AC)	93%	93%
<b>HYBRID OPERATION</b>		
<b>PV INPUT (DC)</b>		
Maximum DC Voltage	550 VDC	550 VDC
Start-up Voltage / Initial Feeding Voltage	120 VDC / 150 VDC	
MPPT Voltage Range	120 VDC ~ 450 VDC	120 VDC ~ 450 VDC
Number of MPPT Trackers / Maximum Input Current	1 / 30A	2 / 18A
<b>GRID OUTPUT (AC)</b>		
Nominal Output Voltage	220/230/240 VAC	
Output Voltage Range	184 - 264.5 VAC or 195.5 - 253 VAC or 184 - 264.4 VAC (Selectable)	
Nominal Output Current	26A	34.7A
<b>AC INPUT</b>		
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC / 180 VAC	
Acceptable Input Voltage Range	90 - 280 VAC or 170 - 280 VAC	
Maximum AC Input Current	40 A	60A
<b>BATTERY MODE OUTPUT (AC)</b>		
Nominal Output Voltage	220/230/240 VAC	
Efficiency (DC to AC)	93%	93%
<b>BATTERY &amp; CHARGER</b>		
Nominal DC Voltage	48 VDC	
Maximum Solar Charging Current	120 A	120 A
Maximum AC Charging Current	120 A	120 A
Maximum Charging Current	120 A	120 A
<b>GENERAL</b>		
<b>PHYSICAL</b>		
Dimension, D x W x H (mm)	192 x 360 x 665	
Net Weight (kgs)	22.5	32
<b>INTERFACE</b>		
Parallel Function	Yes, 9 units	
Communication Port	USB or RS-232/Dry Contact/RS485/Wi-Fi	
<b>ENVIRONMENT</b>		
Humidity	0 ~ 95% RH (No condensing)	
IP degree	IP65	
Operating Temperature	-25°C to 50°C	

Product specifications are subject to change without further notice.