



# KH-I VII WP

2KW~6KW

## Hybrid Solar Inverter



- 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
- Reserved communication port for BMS (RS485)
- User-adjustable charging current and voltage
- Programmable multiple operation modes: Grid-tie, off-grid and grid-tie with backup
- Monitoring software for real-time status display and control
- Parallel operation up to 9 units





# KH-I VII WP 2KW~6KW Hybrid Solar Inverter



MODEL	KH-I VII WP 2KW	KH-I VII WP 3KW	KH-IVII WP 5KW	KH-I VII WP 6KW
<b>PHASE</b>	1-phase in / 1-phase out			
Maximum PV Input Power	3000W	4500W	6000W	6500W
Rated Output Power	2000VA/2000W	3000VA/3000W	5000VA/5000W	6000VA/6000W
Maximum Charging Power	2000W	3000W	4000W	6000W
<b>GRID-TIE OPERATION</b>				
<b>PV INPUT (DC)</b>				
Maximum DC Voltage	400 VDC	500 VDC	500 VDC	550 VDC
Start-up Voltage / Initial Feeding Voltage	120VDC / 150 VDC			120VDC / 150 VDC
MPP Voltage Range	120 VDC ~ 400 VDC	120 VDC ~ 450 VDC	120 VDC ~ 450 VDC	120 VDC ~ 450 VDC
Number of MPP Trackers / Maximum Input Current	1 / 13A	1 / 18A	1 / 27A	1 / 27A
<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 ~ 264.5 VAC (Selectable)			
Nominal Output Current	8.7A	13A	21.7A	26A
Power Factor	>0.99			
<b>EFFICIENCY</b>				
Maximum Conversion Efficiency (DC/AC)	95%			96%
<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	20A	30A	40 A	40 A
<b>PV INPUT (DC)</b>				
Maximum DC Voltage	400 VDC	500 VDC	500 VDC	550 VDC
MPP Voltage Range	120 VDC ~ 400 VDC	120 VDC ~ 450 VDC	120 VDC ~ 450 VDC	120 VDC ~ 450 VDC
Number of MPP Trackers / Maximum Input Current	1 / 13A	1 / 18A	1 / 27A	1 / 27A
<b>BATTERY MODE OUTPUT (AC)</b>				
Nominal Output Voltage	220/230/240 VAC			
Output Waveform	Pure sine wave			
Efficiency (DC to AC)	93%			
<b>HYBRID OPERATION</b>				
<b>PV INPUT (DC)</b>				
Maximum DC Voltage	400 VDC	500 VDC	500 VDC	550 VDC
Start-up Voltage / Initial Feeding Voltage	120VDC / 150 VDC			
MPP Voltage Range	120 VDC ~ 400 VDC	120 VDC ~ 450 VDC	120 VDC ~ 450 VDC	120 VDC ~ 450 VDC
Number of MPP Trackers / Maximum Input Current	1 / 13A	1 / 18A	1 / 27A	1 / 27A
<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 ~ 264.5 VAC (Selectable)			
Nominal Output Current	8.7A	13A	21.7A	26A
<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	20A	30A	40 A	40 A
<b>BATTERY MODE OUTPUT (AC)</b>				
Nominal Output Voltage	220/230/240 VAC			
Output Waveform	Pure sine wave			
Efficiency (DC to AC)	93%			
<b>BATTERY &amp; CHARGER</b>				
Nominal DC Voltage	48 VDC			
Maximum Solar Charging Current	40 A	60 A	100 A	120 A
Maximum AC Charging Current	40 A	60 A	100 A	120 A
Maximum Charging Current	40 A	60 A	100 A	120 A
<b>GENERAL</b>				
<b>PHYSICAL</b>				
Dimension, D X W X H (mm)	196 x 360 x 665			
Net Weight (kgs)	22.5			
<b>INTERFACE</b>				
Parallel Function	Yes, 9 units			
Communication Port	USB or RS-232/Dry Contact/RS485			
<b>ENVIRONMENT</b>				
Humidity	0 ~ 95% RH (No condensing)			
Operating Temperature	-25°C to 50°C			

Product specifications are subject to change without further notice.



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