



KH-I VIV WP

3KW~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), Wi-Fi
- User-adjustable charging current and voltage
- Programmable multiple operation modes: Grid-tie, off-grid and grid-tie with backup
- Dual output for smart load control
- Parallel operation up to 9 units



KH-I VIV WP 3KW~6KW Hybrid Solar Inverter



MODEL	KH-I VIV WP 2KW		KH-I VIV WP 3KW		KH-I VIV WP 5KW		KH-I VIV WP 6KW	
PHASE	1-phase in / 1-phase out							
Maximum PV Input Power	3000W		3000W		6000W		6500W	
Rated Output Power	2000VA/2000W		3000VA/3000W		5000VA/5000W		6000VA/6000W	
Maximum Charging Power	2000W		3000W		5000W		6000W	
GRID-TIE OPERATION								
PV INPUT (DC)								
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 / 30A	
GRID OUTPUT (AC)								
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							
EFFICIENCY								
Maximum Conversion Efficiency (DC/AC)	95%						95%	
OFF-GRID OPERATION								
AC INPUT								
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	
PV INPUT (DC)								
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 / 30A	
BATTERY MODE OUTPUT (AC)								
Nominal Output Voltage	220/230/240 VAC							
Output Waveform	Pure sine wave							
Efficiency (DC to AC)	93%							
HYBRID OPERATION								
PV INPUT (DC)								
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 / 30A	
GRID OUTPUT (AC)								
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	
AC INPUT								
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	
BATTERY MODE OUTPUT (AC)								
Nominal Output Voltage	220/230/240 VAC							
Output Waveform	Pure sine wave							
Efficiency (DC to AC)	93%							
BATTERY & CHARGER								
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	
GENERAL								
PHYSICAL								
Dimension, D X W X H (mm)	192x 360 x 665							
Net Weight (kgs)	22.5							
INTERFACE								
Parallel Function	Yes, 9 units							
Communication Port	USB or RS-232/Dry Contact/RS485/Wi-Fi							
ENVIRONMENT								
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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