



# KH-I WP LV

## 6-10KW

### Hybrid Solar Inverter



- IP65 waterproof and dustproof makes the inverter available for various working conditions
- Dual outputs for smart load control
- Built-in WiFi for mobile monitoring (App is available)
- Built-in alternative port for generator and emergent load
- Optional external CT sensor to guarantee 100% self-consumption
- Programmable supply priority for PV, Battery or Grid
- Built-in communication port for BMS (RS485)
- User-adjustable charging current and voltage
- Parallel operation up to 6 units

# KH-I WP LV 6-10KW

## Hybrid Solar Inverter



MODEL	KH-I WP LV 6KW	KH-I WP LV 10KW
<b>PHASE</b>	120/240V Split phase, 120V/208V Split phase	120/240V Split phase, 120V/208V Two-thirds phase
Maximum PV Input Power	7500W	14500W
Rated Output Power	6000VA/6000W	10000VA/10000W
Maximum Charging Power	6000W	10000W
<b>GRID-TIE OPERATION</b>		
<b>PV INPUT (DC)</b>		
Maximum DC Voltage	600 VDC	
Start-up Voltage / Initial Feeding Voltage	120VDC / 160 VDC	
MPP Voltage Range	120 VDC ~ 550 VDC	
Number of MPP Trackers / Maximum Input Current	2 / 15A	2 / 27A
<b>GRID OUTPUT (AC)</b>		
Nominal Output Voltage	120 VAC (P-N) / 208 VAC (P-P)/ 240 VAC(P-P)	
Output Voltage Range	105.5 - 132 VAC per phase	
Nominal Output Current	25 A per phase	41.5 A per phase
Power Factor	0.9 lag to 0.9 lead	
<b>EFFICIENCY</b>		
Maximum Conversion Efficiency (DC/AC)	96%	
<b>OFF-GRID OPERATION</b>		
<b>AC INPUT</b>		
AC Start-up Voltage / Auto Restart Voltage	85VAC(P-N), 170VAC(P-P) / 90VAC(P-N), 180VAC(P-P)	
Acceptable Input Voltage Range	85 - 140 VAC (P-N)/ 170 - 280 VAC (P-P)	
Frequency Range	50 Hz/60 Hz (Auto sensing)	
Maximum AC Input Current	2 / 15A	2 / 27A
<b>PV INPUT (DC)</b>		
Maximum DC Voltage	600 VDC	
MPP Voltage Range	120 VDC ~ 550 VDC	
Number of MPP Trackers / Maximum Input Current	2 / 15A	2 / 27A
<b>BATTERY MODE OUTPUT (AC)</b>		
Nominal Output Voltage	120 VAC (P-N) / 208 VAC (P-P)/ 240 VAC(P-P)	
Output Waveform	Pure sine wave	
Efficiency (DC to AC)	91%	
<b>HYBRID OPERATION</b>		
<b>PV INPUT (DC)</b>		
Maximum DC Voltage	600 VDC	
Start-up Voltage / Initial Feeding Voltage	120VDC / 160 VDC	
MPP Voltage Range	120 VDC ~ 550 VDC	
Number of MPP Trackers / Maximum Input Current	2 / 15A	2 / 27A
<b>GRID OUTPUT (AC)</b>		
Nominal Output Voltage	120 VAC (P-N) / 208 VAC (P-P)/ 240 VAC(P-P)	
Output Voltage Range	105.5 - 132 VAC per phase	
Nominal Output Current	25 A per phase	41.5 A per phase
<b>AC INPUT</b>		
AC Start-up Voltage / Auto Restart Voltage	85VAC(P-N), 170VAC(P-P) / 90VAC(P-N), 180VAC(P-P)	
Acceptable Input Voltage Range	85 - 140 VAC (P-N)/ 170 - 280 VAC (P-P)	
Maximum AC Input Current	40 A per phase	50 A per phase
<b>BATTERY MODE OUTPUT (AC)</b>		
Nominal Output Voltage	110 VAC (P-N) / 220 VAC (P-P)	
Output Waveform	Pure sine wave	
Efficiency (DC to AC)	91%	96%
<b>BATTERY &amp; CHARGER</b>		
Nominal DC Voltage	42-62 VDC	80-576 VDC
Maximum Solar Charging Current	120 A	30 A
Maximum AC Charging Current	120 A	30 A
Maximum Charging Current	120 A	30 A
<b>GENERAL</b>		
<b>PHYSICAL</b>		
Dimension, D X W X H (mm)	215.5 x 515 x 700	262 x 500 x 575
Net Weight (kgs)	41	50
<b>INTERFACE</b>		
Parallel Function	Yes, 6 units	
Communication Port	RS232, RS485, WI-FI, USB	
<b>ENVIRONMENT</b>		
Protection Degree	IP 65	
Operating Temperature	-25°C to 60°C (>45°C derating)	

\* Product specifications are subject to change without further notice.



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