



KH-I WP

10-15KW

Hybrid Solar Inverter



- IP65 waterproof and dustproof makes the inverter available for various working conditions.
- Built-in WiFi for mobile monitoring (App is available)
- 150% unbalanced load support
- Dual outputs selected as either programmable output or generator input
- User-adjustable charging current
- Reserved communication port for BMS (RS485)
- 5 years warranty
- Parallel operation up to 6 units

KH-I WP 10-15KW

Hybrid Solar Inverter



MODEL	KH-I WP 10KW	KH-I WP 12KW	KH-I WP 15KW
Maximum PV Input Power	14500 W	16000 W	16000 W
Rated Output Power	10000 W	12000 W	15000 W
Maximum Charging Power	10000 W	12000 W	15000 W
GRID-TIE OPERATION			
PV INPUT (DC)			
Nominal DC Voltage	720 VDC	720 VDC	720 VDC
Maximum DC Voltage	1000 VDC	1000 VDC	1000 VDC
Start-up Voltage / Initial Feeding Voltage	320 VDC / 350 VDC	320 VDC / 350 VDC	320 VDC / 350 VDC
MPP Voltage Range	350 VDC ~ 950 VDC	350 VDC ~ 950 VDC	350 VDC ~ 950 VDC
Number of MPP Trackers / Maxium Input Current	2 / A: 27A, B: 13A	2 / A: 27A, B: 27A	2 / A: 27A, B: 27A
Number of Strings Per MPP Tracker	A: 2, B: 1	A: 2, B: 2	A: 2, B: 2
GRID/UTILITY OUTPUT (AC)			
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)	230 VAC (P-N) / 400 VAC (P-P)	230 VAC (P-N) / 400 VAC (P-P)
Output Voltage Range	184 - 265 VAC per phase	184 - 265 VAC per phase	184 - 265 VAC per phase
Output Frequency Range	47.5 ~ 51.5 Hz or 59.3 ~ 60.5 Hz	47.5 ~ 51.5 Hz or 59.3 ~ 60.5 Hz	47.5 ~ 51.5 Hz or 59.3 ~ 60.5 Hz
Nominal Output Current	14.5 A per phase	17.4 A per phase	21.7 A per phase
Power Factor range	0.9 lag ~ 0.9 lead	0.9 lag ~ 0.9 lead	0.9 lag ~ 0.9 lead
EFFICIENCY			
Maximum Conversion Efficiency (DC/AC)	>96%	>96%	>96%
European Efficiency@ Vnominal	>95%	>95%	>95%
OFF-GRID OPERATION			
AC INPUT			
AC Start-up Voltage	120 - 140 VAC per phase	120 - 140 VAC per phase	120 - 140 VAC per phase
Auto Restart Voltage	180 VAC per phase	180 VAC per phase	180 VAC per phase
Acceptable Input Voltage Range	170 - 290 VAC per phase	170 - 290 VAC per phase	170 - 290 VAC per phase
Maximum AC Input Current	40 A	40 A	40 A
PV INPUT (DC)			
Maximum DC Power	14500W	16000W	22500W
Maximum DC Voltage	1000 VDC	1000 VDC	1000 VDC
MPP Voltage Range	350 VDC ~ 950 VDC	350 VDC ~ 950 VDC	350 VDC ~ 950 VDC
Number of MPP Trackers / Maxium Input Current	2 / A: 27A, B: 13A	2 / A: 27A, B: 27A	2 / A: 27A, B: 27A
Number of Strings Per MPP Tracker	A: 2, B: 1	A: 2, B: 2	A: 2, B: 2
BATTERY MODE OUTPUT (AC)			
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)	230 VAC (P-N) / 400 VAC (P-P)	230 VAC (P-N) / 400 VAC (P-P)
Output Frequency	50 Hz / 60 Hz (auto sensing)	50 Hz / 60 Hz (auto sensing)	50 Hz / 60 Hz (auto sensing)
Output Waveform	Pure sine wave	Pure sine wave	Pure sine wave
Efficiency (DC to AC)	91%	91%	91%
HYBRID OPERATION			
PV INPUT (DC)			
Maximum DC Power	14500W	16000W	22500W
Nominal DC Voltage	720 VDC	720 VDC	720 VDC
Maximum DC Voltage	1000 VDC	1000 VDC	1000 VDC
Start-up Voltage / Initial Feeding Voltage	320 VDC / 350 VDC	320 VDC / 350 VDC	320 VDC / 350 VDC
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AC INPUT			
AC Start-up Voltage	120 - 140 VAC per phase	120 - 140 VAC per phase	120 - 140 VAC per phase
Auto Restart Voltage	180 VAC per phase	180 VAC per phase	180 VAC per phase
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Output Frequency	50 Hz / 60 Hz (auto sensing)	50 Hz / 60 Hz (auto sensing)	50 Hz / 60 Hz (auto sensing)
Output Waveform	Pure sine wave	Pure sine wave	Pure sine wave
Efficiency (DC to AC)	91%	91%	91%
BATTERY & CHARGER			
Battery Voltage Range	40 ~ 62 VDC	40 ~ 62 VDC	40 ~ 62 VDC
Maximum Charging Current	220 A	250 A	300 A
GENERAL			
PHYSICAL			
Dimension, D X W X H (mm)	247 x 500 x 650	255 x 660 x 750	255 x 660 x 750
Net Weight (kgs)	42	75	78
IP Protection		IP 65	
INTERACE			
Communication Port	RS-232, USB, DRY CONTACT, RS-485, Wi-Fi		
Intelligent Slot	Optional SNMP, MODBUS and GPRS		
ENVIRONMENT			
Humidity	0 ~ 100% RH		
Operating Temperature	-25 to 60°C, > 45°C Derating		
Altitude	0 ~ 1000 m**		

*These figures are based on VDE-4105 standard. All figures may vary depending on different AC voltage and country requirements.

** Power derating 1% every 100 m when altitude is over 1000m
Product specifications are subject to change without further notice



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