



# KH-I TX

20KW

## Hybrid Solar Inverter



- Pure sine wave output
- Self-consumption and Feed-in to the grid
- Programmable supply priority for PV, Battery or Grid
- True galvanic isolation transformer design
- User-adjustable charging current
- Programmable multiple operation modes: Grid-tie, off-grid and grid-tie with backup
- Built-in timer for various mode of on/off operation
- Multiple communication for USB, RS-232, Modbus and SNMP
- Monitoring software for real-time status display and control

# KH-I TX 20KW

Hybrid Solar Inverter



MODEL	KH-I-TX-20KW
<b>MAXIMUM PV INPUT POWER</b>	30,000W
<b>RATED OUTPUT POWER</b>	20,000W
<b>MAXIMUM CHARGING POWER</b>	20,000W
<b>GRID-TIE OPERATION</b>	
<b>PV INPUT (DC)</b>	
Nominal DC Voltage	720 VDC
Maximum DC Voltage	950 VDC
Start-up Voltage / Initial Feeding Voltage	500 VDC / 550 VDC
MPP Voltage Range	550 VDC ~ 900 VDC
Full power MPP Voltage Range	625 VDC ~ 900 VDC
Number of MPP Trackers	1
Maximum Input Current	48 Amp
<b>GRID OUTPUT (AC)</b>	
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)
Output Voltage Range	184 - 265 VAC per phase
Output Frequency Range	47.5 ~ 51.5 Hz or 59.3 ~ 60.5 Hz
Nominal Output Current	29 A per phase
Power Factor	> 0.99
<b>EFFICIENCY</b>	
Maximum Conversion Efficiency (DC/AC)	91%
<b>OFF-GRID OPERATION</b>	
<b>AC INPUT</b>	
AC Start-up Voltage	120 - 140 VAC per phase
Auto Restart Voltage	180 VAC per phase
Acceptable Input Voltage Range	170 - 280 VAC per phase
Maximum AC Input Current	40 A per phase
<b>PV INPUT (DC)</b>	
Maximum DC Power	30,000W
Maximum DC Voltage	950 VDC
MPP Voltage Range	550 VDC ~ 900 VDC
Number of MPP Trackers	1
Maximum Input Current	48 Amp
<b>BATTERY MODE OUTPUT (AC)</b>	
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)
Output Frequency	50 Hz / 60 Hz (auto sensing)
Output Waveform	Pure sine wave
Efficiency (DC to AC)	>91%
<b>HYBRID OPERATION</b>	
<b>PV INPUT (DC)</b>	
Maximum DC Power	30,000W
Nominal DC Voltage	720 VDC
Maximum DC Voltage	950 VDC
Start-up Voltage / Initial Feeding Voltage	500 VDC / 550 VDC
MPP Voltage Range	550 VDC ~ 900 VDC
Number of MPP Trackers	1
Maximum Input Current	48 Amp
<b>GRID/UTILITY OUTPUT (AC)</b>	
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)
Output Voltage Range	184 - 265 VAC per phase
Output Frequency Range	47.5 ~ 51.5 Hz or 59.3 ~ 60.5 Hz
Nominal Output Current	29 A per phase
Power Factor range	> 0.99
<b>AC INPUT</b>	
AC Start-up Voltage	120 - 140 VAC per phase
Auto Restart Voltage	180 VAC per phase
Acceptable Input Voltage Range	170 - 280 VAC per phase
Maximum AC Input Current	40 A per phase
<b>BATTERY MODE OUTPUT (AC)</b>	
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)
Output Frequency	50 Hz / 60 Hz (auto sensing)
Output Waveform	Pure sine wave
Efficiency (DC to AC)	>91%
<b>BATTERY &amp; CHARGER</b>	
Nominal Battery Voltage/Charging Voltage Range	384 VDC
Maximum Charging Current	50A
<b>GENERAL</b>	
<b>PHYSICAL</b>	
Dimension, D X W X H (mm)	559 x 320 x 909
Net Weight (kgs)	120
<b>INTERFACE</b>	
Communication Port	RS-232/USB
Intelligent Slot	Optional SNMP, GRPS, WIFI, Modbus cards available
<b>ENVIRONMENT</b>	
Humidity	0 ~ 90% RH (No condensing)
Operating Temperature	-10 to 55°C
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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