

## Energrid VTX (3P/3P)

- 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
- Programmable multiple operation modes: Grid-tie, off-grid and grid-tie with backup
- User-adjustable charging current
- 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
- Parallel operation up to 4 units only for 30KW



## Specifications

MODEL	Hybrid VTX 20KM-384	Hybrid VTX 30KM-384
<b>MAXIMUM PV INPUT POWER</b>	30KW	45KW
<b>RATED OUTPUT POWER</b>	20KW	30KW
<b>MAXIMUM CHARGING POWER</b>	20KW	30KW
<b>GRID-TIE OPERATION</b>		
<b>PV INPUT (DC)</b>		
Nominal DC Voltage / Maximum DC Voltage	720 VDC / 950 VDC	
Start-up Voltage / Initial Feeding Voltage	500 VDC / 550 VDC	
MPP Voltage Range	460 VDC~900VDC	460 VDC~900VDC
Full power MPP Voltage Range	625 VDC ~ 900 VDC	
Number of MPP Trackers / Maximum Input Current	1 / 48A	1 / 72A
<b>GRID OUTPUT (AC)</b>		
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)	
Output Voltage Range	195~253 VAC per phase	
Output Frequency Range	47.5 ~ 51.5 Hz or 59.3 ~ 60.5 Hz	
Nominal Output Current	29 A per phase	43.5 A per phase
Power Factor	1	
<b>EFFICIENCY</b>		
Maximum Conversion Efficiency (DC/AC)	93%	95%
<b>OFF-GRID OPERATION</b>		
<b>AC INPUT</b>		
AC Start-up Voltage/Auto Restart Voltage	120 - 140 VAC per phase / 180 VAC per phase for 20KW model 150 - 170 VAC per phase / 180 VAC per phase for 30KW model	
Acceptable Input Voltage Range	170 - 280 VAC per phase	
Maximum AC Input Current	40 A per phase	43.5 A per phase
<b>PV INPUT (DC)</b>		
Maximum DC Voltage / Maximum DC Voltage	30KW / 950 VDC	45KW / 950 VDC
MPP Voltage Range	550 VDC~900VDC	460 VDC~900VDC
Number of MPP Trackers / Maximum Input Current	1 / 48 A	1 / 72 A
<b>BATTERY MODE OUTPUT (AC)</b>		
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)	
Output Waveform	Pure Sinewave	
Efficiency (DC to AC)	>91%	
<b>HYBRID OPERATION</b>		
<b>PV INPUT (DC)</b>		
Nominal DC Voltage / Maximum DC Voltage	720 VDC / 950 VDC	
Start-up Voltage / Initial Feeding Voltage	500 VDC / 550 VDC	
MPP Voltage Range	550 VDC~900VDC	460 VDC~900VDC
Number of MPP Trackers / Maximum Input Current	1 / 48 A	1 / 72 A
<b>GRID OUTPUT (AC)</b>		
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)	
Output Voltage Range	184 - 265 VAC per phase for 20KW model 195 - 253 VAC per phase for 30KW model	
Output Frequency Range	47.5 ~ 51.5 Hz or 59.3 ~ 60.5 Hz	
Nominal Output Current	29.0 A per phase	43.5 A per phase
Power Factor	1	
<b>AC INPUT</b>		
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC per phase / 180 VAC per phase for 20KW model 150 - 170 VAC per phase / 180 VAC per phase for 30KW model	
Acceptable Input Voltage Range	170 - 280 VAC per phase	
Maximum AC Input Current	29.0 A per phase	43.5 A per phase
<b>BATTERY MODE OUTPUT (AC)</b>		
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)	
Efficiency (DC to AC)	>91%	
<b>BATTERY &amp; CHARGER</b>		
Nominal DC Voltage	384 VDC	384VDC/384~480VDC
Maximum Charging Current	50A	80A
<b>GENERAL</b>		
<b>PHYSICAL</b>		
Dimension, D x W x H (mm)	559 x 320 x 909	430 x 715 x 1021
Net Weight (kgs)	120	223
<b>INTERFACE</b>		
Communication Port	RS-232/USB	
Intelligent Slot	Optional SNMP, GRPS, WIFI, Modbus cards available	
<b>ENVIRONMENT</b>		
Humidity	0 ~ 90% RH (Non-Condensing)	
Operating Temperature	-10 to 55°C	
Altitude	0 ~ 1000 m**	

\*\* Power derating 1% every 100 m when altitude is over 1000m

Product specifications are subject to change without further notice.

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Authorised Distributor/ Reseller:

Compatible with:



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