

Thunder On-Grid Inverter With Energy Storage Selection Guide

Model	Thunder VM 2K	Thunder VM 4K
Max. PV Array Power	2000W	4000W
Rated Output Power	2000W	4000W
Maximum PV Array Open Circuit Voltage	145 VDC	145 VDC
MPPT Range@ Operating Voltage	30 VDC~115 VDC	60 VDC~115 VDC
MPP Tracker Number	1	1
GRID-TIE OPERATION		
GRID OUTPUT (AC)		
Nominal Output Voltage	220/230/240 VAC	
Output Voltage Range	184-264.5 VAC	
Nominal Output Current	8.7 A	17.4 A
Power Factor	> 0.99	
EFFICIENCY		
Maximum Conversion Efficiency (DC/AC)	90%	
OFF-GRID, HYBRID OPERATION		
GRID INPUT		
Acceptable Input Voltage Range	90 - 280 VAC or 170- 280 VAC	
Frequency Range	50 Hz/ 60 Hz (Auto sensing)	
Maximum AC Input Current	30A	40A
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	24 VDC	48 VDC
Maximum Solar Charge Current	80 A	80 A
Maximum AC Charge Current	60 A	
Maximum Charge Current	140 A	140 A
GENERAL		
PHYSICAL		
Dimension, D x W x H (mm)	100 x 300 x 440	120 x 295 x 468
Net weight (kgs)	8	11
INTERFACE		
Parallel function	N/A	Yes
External Safety Box (Optional)	Yes	
Communication	USB or RS232/Dry-Contact	
ENVIRONMENT		
Humidity	0~90% RH (Non-condensing)	
Operating Temperature	0 to 50 °C	