

## Especificaciones / Specifications / Spécifications

MODEL	Alpha UM 1K-12	Alpha UM 2K-24	Alpha UM 3K-48	Alpha UM 4K-48	Alpha UM 5K-48
Maximum PV Array Power	1000W	2000W	4000W		6000W
Rated Output Power	1000W	2000W	3000W	4000W	5000W
Maximum PV Array Open Circuit Voltage	145VDC				
MPPT TRange @ Operating Voltage	15 ~ 115VDC	30 ~ 115VDC	60 ~ 115VDC		
Number of MPP Tracker	1				2
<b>GRID-TIE OPERATION</b>					
<b>GRID OUTPUT (AC)</b>					
Nominal Output Voltage	220/230/240VAC				
Output Voltage Range	184 - 264.5VAC or 195.5 - 253VAC (Selectable)				
Nominal Output Current	4.3A	8.7A	13A	17.4A	21.7A
Power Factor	>0.99				
<b>EFFICIENCY</b>					
Maximum Conversion Efficiency (DC/AC)	90%				
<b>OFF-GRID, HYBRID OPERATION</b>					
<b>GRID INPUT</b>					
Acceptable Input Voltage Range	90 - 280VAC or 170 - 280VAC				
Frequency Range	50/60Hz (Auto sensing)				
Maximum AC Input Current	30A		40A		
<b>BATTERY MODE OUTPUT (AC)</b>					
Nominal Output Voltage	220/230/240VAC				
Output Waveform	Pure sine wave				
Efficiency (DC to AC)	93%				
<b>BATTERY &amp; CHARGER</b>					
Nominal DC Voltage	12VDC	24VDC	48VDC		
Maximum Solar Charge Current	80A				120A
Maximum AC Charge Current	60A				
Maximum Charge Current	140A				180A

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MODEL	Alpha UM 1K-12	Alpha UM 2K-24	Alpha UM 3K-48	Alpha UM 4K-48	Alpha UM 5K-48
<b>GENERAL</b>					
<b>PHYSICAL</b>					
Dimension, D x W x H (mm)	100 x 300 x 440		120 x 295 x 468		190 x 295 x 483
Net Weight (kg)	8		11		16
<b>INTERFACE</b>					
Parallel Function	N / A		Yes		
External Safety Box (Optional)	Yes				
Communication Ports	USB or RS-232/Dry-Contact				
<b>ENVIRONMENT</b>					
Humidity	0 ~ 90% RH (Non-condensing)				
Operating Temperature	0°C to 50°C				