

## Energid V III Series

- Pure sine wave output
- Self-consumption and Feed-in to the grid
- Built-in MPPT solar charger
- Programmable supply priority for PV, Battery or Grid
- User-adjustable charging current and voltage
- Programmable multiple operation modes: Grid-tie, off-grid and grid-tie with backup
- Detachable LCD panel
- Built-in WiFi for mobile monitoring (APP is available)
- Supports USB on-the-go function
- Reserve BMS communication
- Parallel operation up to 9 units



## Specifications

MODEL	Energid V III 2KM-48	Energid V III 3KM-48	Energid V III 5KM-48	Energid V III 6KM-48
Phase	1-phase in / 1-phase out			
Maximum PV Input Power	3000W	4500W	6000W	6000W
Rated Output Power	2000W	3000W	5000W	6000W
Maximum Charging Power	3000W	3000W	5000W	6000W
<b>GRID-TIE OPERATION</b>				
<b>PV INPUT (DC)</b>				
Nominal DC Voltage / Maximum DC Voltage	240 VDC / 500 VDC	360 VDC / 500 VDC	360 VDC / 450 VDC	360 VDC / 500 VDC
Start-up Voltage / Initial Feeding Voltage	120VDC / 150 VDC	120VDC / 150 VDC	120VDC / 150 VDC	120VDC / 150 VDC
MPP Voltage Range	120 VDC ~ 430 VDC	120 VDC ~ 430 VDC	120 VDC ~ 430 VDC	120 VDC ~ 430 VDC
Number of MPP Trackers / Maximum Input Current	1 / 13 A	1 / 13A	1 / 27A	1 / 27A
<b>GRID OUTPUT (AC)</b>				
Nominal Output Voltage	220/230/240 VAC			
Output Voltage Range	184 - 264.5 VAC or 195.5 - 253 VAC (Selectable)			
Nominal Output Current	8.7A	13A	21.7A	26A
Power Factor	> 0.99			
<b>EFFICIENCY</b>				
Maximum Conversion Efficiency (DC/AC)	95%			
<b>OFF-GRID OPERATION</b>				
<b>AC INPUT</b>				
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC / 180 VAC			
Acceptable Input Voltage Range	90 - 280 VAC or 170 - 280 VAC			
Frequency Range	50 Hz/60 Hz (Auto sensing)			
Maximum AC Input Current	30 A	40 A	40 A	40 A
<b>PV INPUT (DC)</b>				
Maximum DC Voltage	500 VDC	500 VDC	450 VDC	500 VDC
MPP Voltage Range	120 VDC ~ 430 VDC	120 VDC ~ 430 VDC	120 VDC ~ 430 VDC	120 VDC ~ 430 VDC
Number of MPP Trackers / Maximum Input Current	1 / 13 A	1 / 13A	1 / 27A	1 / 27A
<b>BATTERY MODE OUTPUT (AC)</b>				
Nominal Output Voltage	220/230/240 VAC			
Output Waveform	Pure sine wave			
Efficiency (DC to AC)	93%	93%	93%	93%
<b>HYBRID OPERATION</b>				
<b>PV INPUT (DC)</b>				
Nominal DC Voltage / Maximum DC Voltage	360 VDC / 500 VDC	360 VDC / 500 VDC	360 VDC / 450 VDC	360 VDC / 500 VDC
Start-up Voltage / Initial Feeding Voltage	120VDC / 150 VDC	120VDC / 150 VDC	120VDC / 150 VDC	120VDC / 150 VDC
MPP Voltage Range	120 VDC ~ 430 VDC	120 VDC ~ 430 VDC	120 VDC ~ 430 VDC	120 VDC ~ 430 VDC
Number of MPP Trackers / Maximum Input Current	1 / 13 A	1 / 13A	1 / 27A	1 / 27A
<b>GRID OUTPUT (AC)</b>				
Nominal Output Voltage	220/230/240 VAC			
Output Voltage Range	184 - 264.5 VAC or 195.5 - 253 VAC (Selectable)			
Nominal Output Current	8.7A	13A	21.7A	26.1A
<b>AC INPUT</b>				
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC / 180 VAC			
Acceptable Input Voltage Range	90 - 280 VAC or 170 - 280 VAC			
Maximum AC Input Current	30 A	40 A	40 A	40 A
<b>BATTERY MODE OUTPUT (AC)</b>				
Nominal Output Voltage	220/230/240 VAC			
Efficiency (DC to AC)	93%	93%	93%	93%
<b>BATTERY &amp; CHARGER</b>				
Nominal DC Voltage	48 VDC			
Maximum Solar Charging Current	60 A	60 A	100 A	120 A
Maximum AC Charging Current	60 A	60 A	100 A	120 A
Maximum Charging Current	60 A	60 A	100 A	120 A
<b>GENERAL</b>				
<b>PHYSICAL</b>				
Dimension, D x W x H (mm)	140 x 295 x 468			140 x 365 x 468
Net Weight (kgs)	11	11	12	14
<b>INTERACE</b>				
Parallel Function	Yes, 9 units			
Communication Port	USB, RS-232, Dry Contact and WiFi			
<b>ENVIRONMENT</b>				
Humidity	0 ~ 90% RH (No condensing)			
Operating Temperature	-10°C to 50°C			

Product specifications are subject to change without further notice.

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Authorised Distributor/ Reseller:

Compatible with:



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