



## Energrid V II Series

### Operation without battery

- Pure sine wave output
- Self-consumption and Feed-in to the grid
- Programmable supply priority for PV, Battery or Grid
- User-adjustable charging current and voltage
- Monitoring software for real-time status display & control
- Programmable multiple operation modes: Grid-tie, off-grid and grid-tie with backup
- Parallel operation up to 9 units only for 2KW/3KW/5KW/6KW models
- Battery Independent system

## Specifications

MODEL	Energrid V II 1.5KM-48	Energrid V II 2KM-48	Energrid V II 3KM-24	Energrid V II 3KM-48	Energrid V II 5KM-48	Energrid V II 6KM-48
Phase	1-phase in / 1-phase out					
Maximum PV Input Power	2000W	3000W	4000W	4000 W	5000W	6000W
Rated Output Power	1500W	2000W	3000 W	3000W	5000W	6000W
Maximum Charging Power	2000W	2880W	2880W	2880W	5000W	5000W
<b>GRID-TIE OPERATION</b>						
<b>PV INPUT (DC)</b>						
Nominal DC Voltage / Maximum DC Voltage	120 VDC / 400 VDC	240 VDC / 450 VDC	360 VDC / 450 VDC	360 VDC / 450 VDC	60 VDC / 450 VDC	360 VDC / 500 VDC
Start-up Voltage / Initial Feeding Voltage	130VDC / 150 VDC	130VDC / 150 VDC	130VDC / 150 VDC	130VDC / 150 VDC	130VDC / 150 VDC	130VDC / 150 VDC
MPP Voltage Range	120 VDC ~ 380 VDC	90 VDC ~ 430 VDC	120 VDC ~ 430 VDC	120 VDC ~ 430 VDC	120 VDC ~ 430 VDC	120 VDC ~ 430 VDC
Number of MPP Trackers / Maximum Input Current	1 / 18 A	1 / 18 A	1 / 18A	1 / 18A	1 / 18A	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	6.5A	8.7A	13A	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	30 A	40 A	40 A	40 A	40 A
<b>PV INPUT (DC)</b>						
Maximum DC Voltage	400 VDC	450 VDC	450 VDC	450 VDC	450 VDC	500 VDC
MPP Voltage Range	120 VDC ~ 380 VDC	90 VDC ~ 430 VDC	120 VDC ~ 430 VDC	120 VDC ~ 430 VDC	120 VDC ~ 430 VDC	120 VDC ~ 430 VDC
Number of MPP Trackers / Maximum Input Current	1 / 18 A	1 / 18 A	1 / 18 A	1 / 18 A	1 / 18A	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%	93%	93%
<b>HYBRID OPERATION</b>						
<b>PV INPUT (DC)</b>						
Nominal DC Voltage / Maximum DC Voltage	120 VDC / 400 VDC	240 VDC / 450 VDC	360 VDC / 450 VDC	360 VDC / 450 VDC	360 VDC / 450 VDC	360 VDC / 500 VDC
Start-up Voltage / Initial Feeding Voltage	130VDC / 150 VDC	130VDC / 150 VDC	130VDC / 150 VDC	130VDC / 150 VDC	120VDC / 150 VDC	130VDC / 150 VDC
MPP Voltage Range	120 VDC ~ 380 VDC	90 VDC ~ 430 VDC	120 VDC ~ 430 VDC	120 VDC ~ 430 VDC	120 VDC ~ 430 VDC	120 VDC ~ 430 VDC
Number of MPP Trackers / Maximum Input Current	1 / 18 A	1 / 18 A	1 / 18A	1 / 18A	1 / 18A	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	6.5A	8.7A	13A	13A	21.7A	26A
<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	30 A	40 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%	93%	93%
<b>BATTERY &amp; CHARGER</b>						
Nominal DC Voltage	48 VDC	48 VDC	24 VDC	48 VDC	48 VDC	48 VDC
Maximum Solar Charging Current	30A	60 A	60 A	60 A	100 A	120 A
Maximum AC Charging Current	40A	60 A	60 A	60 A	100 A	120 A
Maximum Charging Current	40A	60 A	60 A	60 A	100 A	120 A
<b>GENERAL</b>						
<b>PHYSICAL</b>						
Dimension, D x W x H (mm)	100 x 300 x 440	120 x 295 x 468	120 x 295 x 468	120 x 295 x 468	120 x 295 x 468	120 x 295 x 468
Net Weight (kgs)	8	11	11	11	12	12
<b>INTERFACE</b>						
Parallel Function	N/A	Yes, 9 units	Yes, 9 units	Yes, 9 units	Yes, 9 units	Yes, 9 units
Communication Port	USB or RS-232/Dry Contact					
<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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