

## INVERTER SERIES

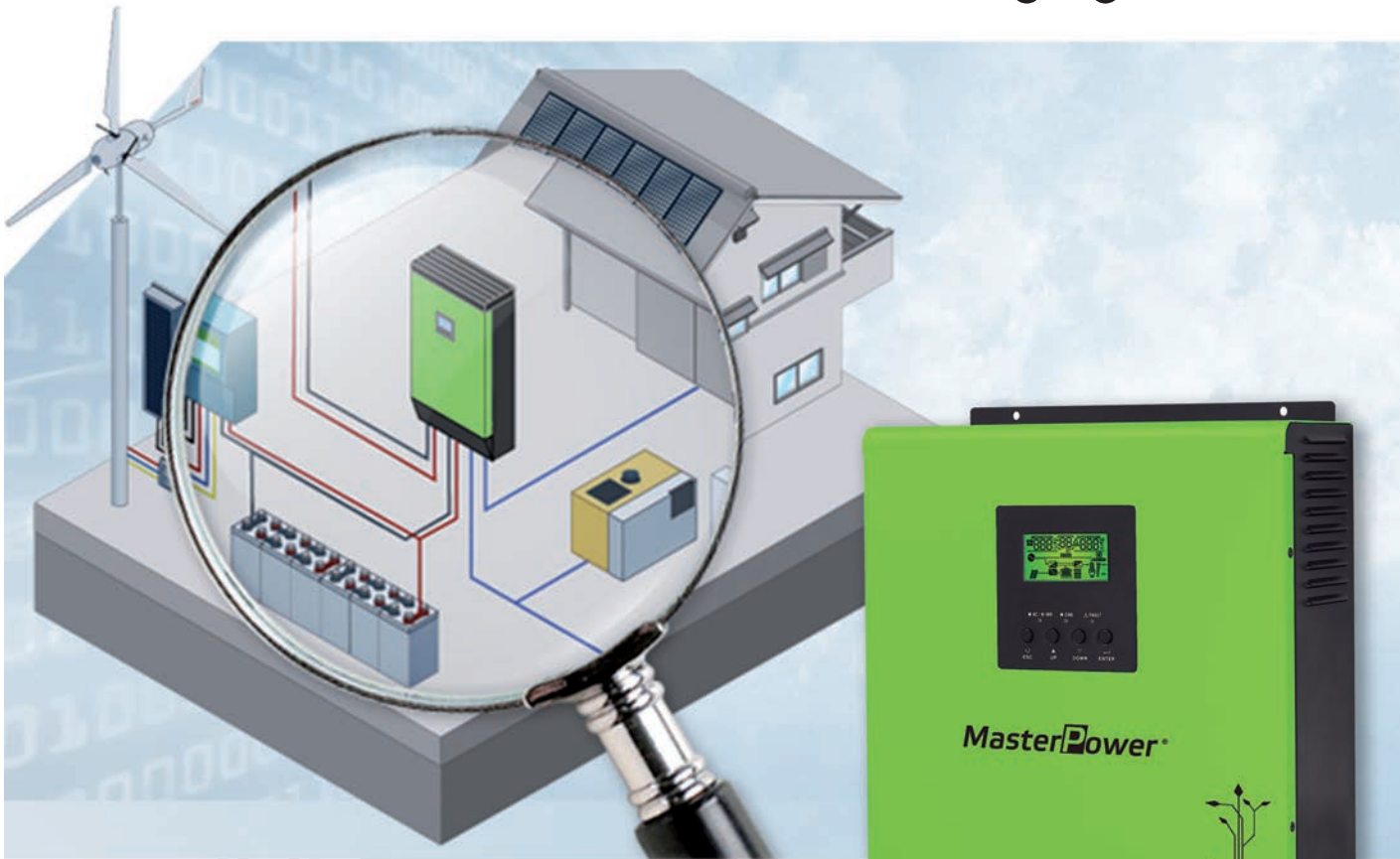
Off-Grid OMEGA

ON-Grid GAMMA

Hybrid ALPHA

Water Pump OMEGA

Charging Station



**Intelligence  
in your installation**

# OMEGA TOP

## Off-Grid



- Pure sine wave inverter
- Built-in MPPT solar charge controller
- Selectable input voltage range for home appliances and personal computers
- Selectable charging current based on applications
- Configurable AC/Solar input priority via LCD setting
- Compatible to mains voltage or generator power
- Auto restart while AC is recovering
- Overload and short circuit protection
- Smart battery charger design for optimized battery performance
- Cold start function
- Optional remote panel available

MODEL	OMEGA TOP 2K-24	OMEGA TOP 2K-48	OMEGA TOP 3K-24	OMEGA TOP 3K-48
Rated Power	2000VA/1600W	2000VA/1600W	3000VA/2400W	3000VA/2400W
<b>INPUT</b>				
Voltage	120 VAC or 230 VAC		230 VAC	
Selectable Voltage Range	95-140 VAC or 170-280 VAC (For Personal Computers) 65-140 VAC or 90-280 VAC (For Home Appliances)		170-280 VAC (For Personal Computers) 90-280 VAC (For Home Appliances)	
Frequency Range	50 Hz/60 Hz (Auto sensing)			
<b>OUTPUT</b>				
AC Voltage Regulation (Batt. Mode)	110/120 VAC ± 5% (User selectable) or 230VAC ± 5%		230VAC ± 5%	
Surge Power	4000VA		6000VA	
Efficiency (Peak)	90% - 93%			
Transfer Time	10 ms (For Personal Computers) 20 ms (For Home Appliances)			
Waveform	Pure sine wave			
<b>BATTERY</b>				
Battery Voltage	24 VDC	48 VDC	24 VDC	48 VDC
Floating Charge Voltage	27 VDC	54 VDC	27 VDC	54 VDC
Overcharge Protection	31 VDC	62 VDC	31 VDC	62 VDC
<b>SOLAR CHARGER &amp; AC CHARGER</b>				
Maximum PV Array Power	1500 W	3000 W	1500 W	3000 W
MPPT Range @ Operating Voltage	30~ 115 VDC	60 ~ 115 VDC	30~ 115 VDC	60 ~ 115 VDC
Maximum PV Array Open Circuit Voltage	145 VDC			
Maximum Solar Charge Current	60A			
Maximum AC Charge Current	20 A or 30 A	10 A or 15 A	30 A	15 A
Maximum Efficiency	98%			
Standby Power Consumption	2 W			
<b>PHYSICAL</b>				
Dimension, D x W x H (mm)	140 x 295 x 479			
Net Weight (kgs)	11.5			
<b>OPERATING ENVIRONMENT</b>				
Humidity	5% to 95% Relative Humidity(Non-condensing)			
Operating Temperature	0°C - 55°C			
Storage Temperature	-15°C - 60°C			

Product specifications are subject to change without further notice

# OMEGA PMS

## Off-Grid



- Pure sine wave inverter
- Built-in MPPT solar charge controller
- Selectable input voltage range for home appliances and personal computers
- Selectable charging current based on applications
- Configurable AC/Solar input priority via LCD setting
- Compatible to mains voltage or generator power
- Auto restart while AC is recovering
- Overload and short circuit protection
- Smart battery charger design for optimized battery performance
- Cold start function
- Parallel operation with up to 6 units only available for 4KVA/5KVA
- Optional remote panel available

MODEL	OMEGA PMS 1K-24	OMEGA PMS 1K-48	OMEGA PMS 2K-24	OMEGA PMS 3K-24	OMEGA PMS 3K-48	OMEGA PMS 4K	OMEGA PMS 5K
Rated Power	1000VA/800W	1000VA/1000W	2000VA/1600W	3000VA/2400W	3000VA/2400W	4000VA/3200W	5000VA/4000W
<b>INPUT</b>							
Voltage	230 VAC						
Selectable Voltage Range	170-280 VAC (For Personal Computers) 90-280 VAC (For Home Appliances)						
Frequency Range	50 Hz/60 Hz (Auto sensing)						
<b>OUTPUT</b>							
AC Voltage Regulation (Batt. Mode)	230VAC ± 5%						
Surge Power	2000VA	4000VA	6000VA	8000VA	10000VA		
Efficiency (Peak)	90% - 93%		93%				
Transfer Time	10 ms (For Personal Computers) ; 20 ms (For Home Appliances)						
Waveform	Pure sine wave						
<b>BATTERY</b>							
Battery Voltage	24 VDC	48 VDC	24 VDC	24 VDC	48 VDC	48 VDC	
Floating Charge Voltage	27 VDC	54 VDC	27 VDC	27 VDC	54 VDC	54 VDC	
Overcharge Protection	31 VDC	62 VDC	31 VDC	31 VDC	62 VDC	60 VDC	
<b>SOLAR CHARGER &amp; AC CHARGER</b>							
Maximum PV Array Power	600W	900W	600W	600W	900W	4000W	
MPPT Range @ Operating Voltage	30VDC ~ 66VDC	60VDC ~ 88VDC	30VDC ~ 66VDC	30VDC ~ 66VDC	60VDC ~ 88VDC	60VDC ~115VDC	
Maximum PV Array Open Circuit Voltage	75VDC	102VDC	75VDC	75VDC	102VDC	145 VDC	
Maximum Solar Charge Current	25A	18A	25A	25A	18A	80A	
Maximum AC Charge Current	20A	15A	30A	30A	15A	60 A	
Maximum Charge Current	25A	18A	30A	30A	18A	140A	
	AC charger and solar charger can't work at the same time.						
Maximum Efficiency	98%						
Standby Power Consumption	2 W						
<b>PHYSICAL</b>							
Dimension, D x W x H (mm)	100 x 272 x 355					120 x 295 x 468	
Net Weight (kgs)	6.8		7.0		7.4		11
<b>OPERATING ENVIRONMENT</b>							
Humidity	5% to 95% Relative Humidity(Non-condensing)						
Operating Temperature	0°C - 55°C						
Storage Temperature	-15°C - 60°C						

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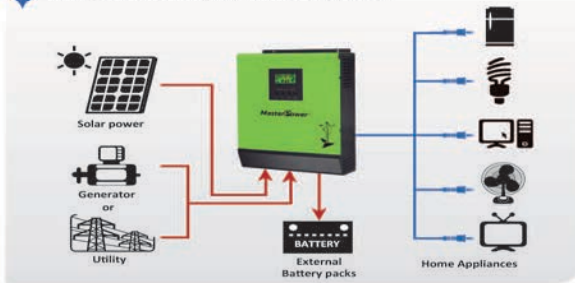
# OMEGA MS

## Off-Grid

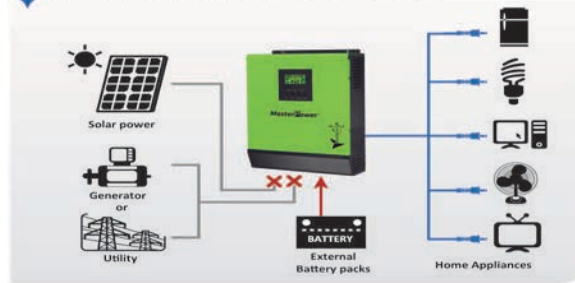


- Pure sine wave inverter
- Selectable input voltage range for home appliances and personal computers
- Selectable charging current based on applications
- Configurable AC/Solar input priority via LCD setting
- Compatible to mains voltage or generator power
- Parallel operation with up to 6 units only available for 4KVA/5KVA
- Auto restart while AC is recovering
- Overload and short circuit protection
- Smart battery charger design for optimized battery performance
- Cold start function
- Optional remote panel available

1 Solar Power and AC Power available



2 Solar Power and AC Power not available



MODEL	OMEGA MS 1K	OMEGA MS 2K	OMEGA MS 3K	OMEGA MS 4K	OMEGA MS 5K
Rated Power	1000VA / 800W	2000VA/1600W	3000VA / 2400W	4000VA / 3200W	5000VA / 4000W
<b>INPUT</b>					
Voltage	230 VAC				
Selectable Voltage Range	170-280 VAC (For Personal Computers) 90-280 VAC (For Home Appliances)				
Frequency Range	50 Hz/60 Hz (Auto sensing)				
<b>OUTPUT</b>					
AC Voltage Regulation (Batt. Mode)	230VAC $\pm$ 5 %				
Surge Power	2000VA	4000VA	6000VA	8000VA	10000VA
Efficiency (Peak)	90%	93%			
Transfer Time	10 ms (For Personal Computers) 20 ms (For Home Appliances)				
Waveform	Pure sine wave				
<b>BATTERY</b>					
Battery Voltage	12 VDC	24 VDC		48 VDC	
Floating Charge Voltage	13.5 VDC	27 VDC		54 VDC	
Overcharge Protection	15.5 VDC	31 VDC		60 VDC	
<b>SOLAR CHARGER &amp; AC CHARGER</b>					
Maximum PV Array Open Circuit Voltage	50VDC	60VDC		105VDC	
Standby Power Consumption	1 W	2 W		2W	
Maximum Solar Charge Current	50A	50A		50 A	
Maximum AC Charge Current	20 A	30 A		60 A	
Maximum Charge Current	50 A			110 A	
<b>PHYSICAL</b>					
Dimension, D x W x H (mm)	95 x 240 x 316	100 x 272 x 355		120 x 295 x 468	
Net Weight (kgs)	5.0	6.4	6.9	9.8	9.8
<b>OPERATING ENVIRONMENT</b>					
Humidity	5% to 95% Relative Humidity(Non-condensing)				
Operating Temperature	0°C - 55°C				
Storage Temperature	-15°C - 60°C				

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# OMEGA EU

## Off-Grid



- Pure sine wave inverter
- Enhance AC charger to 60A
- Wide battery input range
- Selectable input voltage range for home appliances and personal computers
- Selectable high power charging current
- Configurable AC/Solar input priority via LCD setting
- Compatible to mains voltage or generator power
- Auto restart while AC is recovering
- Overload and short circuit protection
- Smart battery charger design for optimized battery performance
- Cold start function

MODEL	OMEGA EU 1.5K-12	OMEGA EU 1.5K-24	OMEGA EU 3K-24
Rated Power	1500VA/1200W		3000VA/2400W
<b>INPUT</b>			
Voltage	220/230/240 VAC		
Selectable Voltage Range	170-280 VAC (For Personal Computers) 90-280 VAC (For Home Appliances)		
Frequency Range	50 Hz/60 Hz (Auto sensing)		
<b>OUTPUT</b>			
AC Voltage Regulation (Batt. Mode)	220/230/240VAC ± 5%		
Surge Power	3000VA		6000VA
Efficiency (Peak)	90% ~ 93%		
Transfer Time	10 ms (For Personal Computers) 20 ms (For Home Appliances)		
Waveform	Pure sine wave		
<b>BATTERY</b>			
Battery Voltage	12 VDC		24 VDC
Floating Charge Voltage	13.5 VDC		27 VDC
Overcharge Protection	16 VDC		32 VDC
<b>SOLAR CHARGER &amp; AC CHARGER</b>			
Maximum PV Array Open Circuit Voltage	50 VDC		75 VDC
Maximum Solar Charge Current		50 A	
Maximum AC Charge Current		60A	
Maximum Charge Current		110A	
<b>PHYSICAL</b>			
Dimension, D x W x H (mm)	100 x 272 x 355		
Net Weight (kgs)	6.6		
<b>OPERATING ENVIRONMENT</b>			
Humidity	5% to 95% Relative Humidity(Non-condensing)		
Operating Temperature	-20°C to 55°C		
Storage Temperature	-30°C to 60°C		

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# OMEGA TOP DUO/TRI

## Off-Grid



- Pure sine wave inverter
- Built-in 2 or 3 strings of MPPT solar charge controller depending on models
- Enhanced AC charger to 60A
- Wide battery input range
- Selectable input voltage range for home appliances and personal computers
- Selectable high power charging current
- Configurable AC/Solar input priority via LCD setting
- Compatible to mains voltage or generator power
- Auto restart while AC is recovering
- Overload and short circuit protection
- Smart battery charger design for optimized battery performance
- Cold start function
- Optional SNMP card

MODEL	OMEGA TOP DUO 1.5K-12	OMEGA TOP DUO 1.5K-48	OMEGA TOP DUO 3K-24	OMEGA TOP DUO 3K-48	OMEGA TOP DUO 5K	OMEGA TOP TRI 5K
Rated Power	1500VA/1200W		3000VA/2400W		5000VA/4000W	
<b>INPUT</b>						
Voltage	230 VAC					
Selectable Voltage Range	170-280 VAC (For Personal Computers) 90-280 VAC (For Home Appliances)					
Frequency Range	50 Hz/60 Hz (Auto sensing)					
<b>OUTPUT</b>						
AC Voltage Regulation (Batt. Mode)	230VAC ± 5%					
Surge Power	3000VA		6000VA		10000VA	
Efficiency (Peak)	90% ~ 93%					
Transfer Time	10 ms (For Personal Computers) 20 ms (For Home Appliances)					
Waveform	Pure sine wave					
<b>BATTERY</b>						
Battery Voltage	12 VDC	48 VDC	24 VDC	48 VDC	48 VDC	48 VDC
Floating Charge Voltage	13.5 VDC	54 VDC	27 VDC	54 VDC	54 VDC	54 VDC
Overcharge Protection	16 VDC	62 VDC	32 VDC	62 VDC	60 VDC	60 VDC
<b>SOLAR CHARGER &amp; AC CHARGER</b>						
Maximum PV Array Power	1000W	2000W	2000W	2000 W	6000W	9000W
MPPT Range @ Operating Voltage	15~80 VDC	60 ~ 90 VDC	30~80 VDC	60 ~ 90 VDC	60~115Vdc	
Maximum PV Array Open Circuit Voltage	100 VDC				145 VDC	
Maximum Solar Charge Current	80A	40A	80A	40A	120A	180A
Maximum AC Charge Current	60A					
Maximum Charge Current	140 A	100 A	140 A	100 A	180 A	240 A
Maximum Efficiency	98%					
<b>PHYSICAL</b>						
Dimension, D x W x H (mm)	124 x 272 x 400				194 x 295 x 455	
Net Weight (kgs)	8.0				16	17
<b>OPERATING ENVIRONMENT</b>						
Humidity	5% to 95% Relative Humidity(Non-condensing)					
Operating Temperature	-20°C to 55°C					
Storage Temperature	-30°C to 60°C					

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# OMEGA UP/UM

## Off-Grid



- Pure sine wave solar inverter
- Selectable high power charging current
- Wide DC input range
- Selectable input voltage range for home appliances and personal computers
- Configurable AC/Solar input priority via LCD setting
- Compatible to mains voltage or generator power
- Auto restart while AC is recovering
- Overload and short circuit protection
- Smart battery charger design for optimized battery performance
- Cold start function

MODEL	OMEGA UP3000-24	OMEGA UM3000-24	OMEGA UM-3000-24 Plus	OMEGA UP5000-48	OMEGA UM5000-48
Rated Power	3000VA/2400W			5000VA/4000W	
<b>INPUT</b>					
Voltage	230 VAC				
	170-280 VAC (For Personal Computers)				
Selectable Voltage Range	90-280 VAC (For Home Appliances)				
Frequency Range	50 Hz/60 Hz (Auto sensing)				
<b>OUTPUT</b>					
AC Voltage Regulation (Batt. Mode)	230VAC ± 5%				
Surge Power	6000VA			10000VA	
Efficiency (Peak)	90% ~ 93%				
Transfer Time	10 ms (For Personal Computers) 20 ms (For Home Appliances)				
Waveform	Pure sine wave				
<b>BATTERY</b>					
Battery Voltage	24 VDC			48 VDC	
Floating Charge Voltage	27 VDC			54 VDC	
Overcharge Protection	32 VDC			63 VDC	
<b>SOLAR CHARGER &amp; AC CHARGER</b>					
Solar Charger Type	PWM	MPPT		PWM	MPPT
Maximum PV Array Open Circuit Voltage	75 VDC	100 VDC	145 VDC	105 VDC	145 VDC
Maximum Solar Charge Current	50A	40A	60A	50A	60A
Maximum AC Charge Current	25A			60A	
Maximum Charge Current	70A	60A	120A	110A	120A
<b>PHYSICAL</b>					
Dimension, D X W X H (mm)	100 x 334 x 285			100 x 440 x 300	
Net Weight (kgs)	6.4Kg	6.6Kg	11Kg	11Kg	13Kg
Communication Interface	USB				
<b>OPERATING ENVIRONMENT</b>					
Humidity	5% to 95% Relative Humidity(Non-condensing)				
Operating Temperature	-10°C to 50°C				
Storage Temperature	-15°C to 60°C				

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# OMEGA MP/MM

## Off-Grid



- Pure sine wave solar inverter
- Selectable high power charging current
- Wide DC input range
- Selectable input voltage range for home appliances and personal computers
- Configurable AC/Solar input priority via LCD setting
- Compatible to mains voltage or generator power
- Auto restart while AC is recovering
- Overload and short circuit protection
- Smart battery charger design for optimized battery performance
- Cold start function
- Parallel up to 6 units

MODEL	OMEGA MP-3K-24	OMEGA MM-3K-24	OMEGA MP-5K-24	OMEGA MM-5K-24
Rated Power	3000VA/2400W		5000VA/4000W	
<b>INPUT</b>				
Voltage	230 VAC			
Selectable Voltage Range	170-280 VAC (For Personal Computers) 90-280 VAC (For Home Appliances)			
Frequency Range	50 Hz/60 Hz (Auto sensing)			
<b>OUTPUT</b>				
AC Voltage Regulation (Batt. Mode)	230VAC ± 5%			
Surge Power	6000VA		10000VA	
Efficiency (Peak)	90%			
Transfer Time	10 ms (For Personal Computers) 20 ms (For Home Appliances)			
Parallel units	6			
Waveform	Pure sine wave			
<b>BATTERY</b>				
Battery Voltage	24 VDC			
Floating Charge Voltage	Default 24 VDC; Maximum 30 VDC			
Overcharge Protection	32 VDC			
<b>SOLAR CHARGER &amp; AC CHARGER</b>				
Solar Charger Type	PWM	MPPT	PWM	MPPT
Maximum PV Array Open Circuit Voltage	75 VDC	100 VDC	105 VDC	145 VDC
Maximum Solar Charge Current	50A	40A	50A	60A
Maximum AC Charge Current	60A			
Maximum Charge Current	110A	100A	110A	120A
<b>PHYSICAL</b>				
Dimension, D X W X H (mm)	100x272x355		180x310x475	
Net Weight (kgs)	7.0	7.5	11.5	12.5
Communication Interface	USB & RS232			
<b>OPERATING ENVIRONMENT</b>				
Humidity	5% to 95% Relative Humidity(Non-condensing)			
Operating Temperature	-10 °C to 50 °C			
Storage Temperature	-15 °C to 60 °C			

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# GAMMA ON-GRID



- Advanced DSP control technology delivers accurate data
- Built-in smart MPPTs to enhance overall efficiency
- Up to 96% high conversion efficiency
- Modulized design for easy maintenance
- Industrial-grade components used for robust operation
- Data log up to 15 years
- IP 65 protection for outdoor and harsh environment
- 5-year product warranty
- Optional monitoring software

	GAMMA 1.5KW	GAMMA2KW	GAMMA 3KW	GAMMA 5KW
<b>PHASE</b>				
<b>1-phase out</b>				
Max. DC Power	1650W	2200W	3300W	5000 W
Maximum DC Voltage	450 VDC	500 VDC	500 VDC	500 VDC
MPP Voltage Range	150 VDC ~ 400 VDC	200 VDC ~ 450 VDC	250 VDC ~ 500 VDC	180 VDC ~ 500 VDC
Nominal DC Voltage	360 VDC		370 VD	
Start-up Voltage / Initial Feeding Voltage	120VDC / 150VD		125VDC / 150VDC	
Maximum Input Current	1 x 11A		1 x 13A	2 x 15A
Number of MPP Trackers / Strings per MPP Tracker	1 / A:1		1 / A:1	2 / A:1;B:1
<b>OUTPUT (AC)</b>				
AC Nominal Power	1500 W	2000 W	3000 W	4600 W
Maximum AC Apparent Power	1600 VA	2100 VA	3000 VA	4600 VA
Nominal AC Voltage	230 VAC			
AC Voltage Range	184 - 264 VAC*			
AC Grid Frequency	50Hz / 60Hz			
Nominal Output Current	6.6A	8.7A	13A	20A
Power Factor @ Rated Power	> 0.99			
<b>EFFICIENCY</b>				
Maximum Efficiency			97.0%	97.0%
European Efficiency @ Nominal Voltage & 100% Load			96.0%	96.0%
<b>PROTECTION</b>				
DC Reverse-Polarity Protection			Yes	
Ground Fault Monitoring			Yes	
Grid Monitoring			Yes	
AC Short Circuit Protection			Yes	
Over Current Protection	30 A	30 A	30 A	50 A
<b>PHYSICALY</b>				
Dimension, D X W X H (mm)	136.5 x 268.5 x 410	160 x 270 x 450	182 x 308 x 515	
Net Weight (kgs)	11.5	11.5	15	20
<b>INTERACE</b>				
Intelligent Slot	USB and RS-232 card / Option : SNMP card and Modbus card			
<b>ENVIRONMENT</b>				
Humidity	0 ~ 100% RH (No condensing)			
Operating Temperature	-25°C to 60°C			
Altitude	0 ~ 1000 m**			
<b>COMPLIANCE</b>				
Standard	CE, VDE-AR-N 4105, IEC62109			

\*The AC Voltage Range may vary depending on different country grid standard\*\* Power derating 1% every 100 m when altitude is over 1000mVDE-AR-N 4105Product specifications are subject to change without further notice

## On-Grid Inverter with Energy Storage



- Pure sine wave output
- Self-consumption and Feed-in to the grid
- Programmable supply priority for PV, Battery or Grid
- User-adjustable battery charging current suits different types of batteries
- Programmable multiple operation modes: Grid-tie, off-grid and grid-tie with backup
- 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

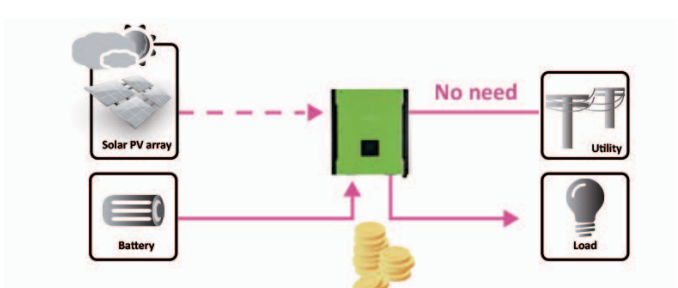
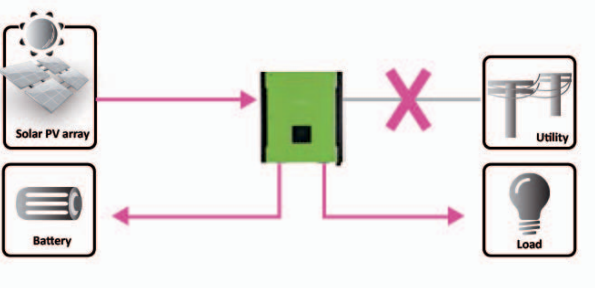
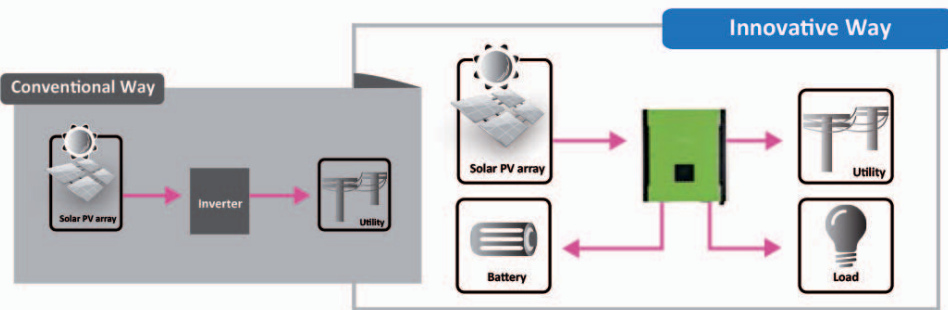
ALPHA is a flexible and intelligent hybrid inverter which utilizes solar power, AC utility, and battery power source to supply continuous power. It's a simple and smart solar power storage system for home users to either store energy into a battery and wait for night-time usage or use for self-consumption first depending on demands. Priority for power source can be programmed and set up through smart software. During night time or power failure, it will automatically extract power from the battery. In this way, it will reduce dependence on the utility.



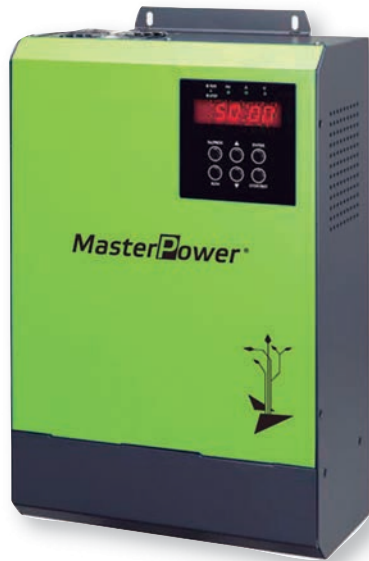
MODEL	ALPHA 2KW	ALPHA 3KW MPPT	ALPHA 5KW	ALPHA 5KW MPPT	ALPHA 3P 10KW
<b>PHASE</b>	1-phase in / 1-phase out				3-phase in / 3-phase out
<b>MAXIMUM PV INPUT POWER</b>	2250 W	4500 W	5000 W	10000 W	14850 W
<b>RATED OUTPUT POWER</b>	2000 W	3000 W	5000 W	5000 W	10000 W
<b>MAXIMUM CHARGING POWER</b>	1200 W		1500 W	4800 W	9600 W
<b>GRID-TIE OPERATION</b>					
<b>PV INPUT (DC)</b>					
Nominal DC Voltage / Maximum DC Voltage	300 VDC / 350 VDC	360 VDC / 500 VDC		720 VDC / 900 VDC	720 VDC / 900 VDC
Start-up Voltage / Initial Feeding Voltage	80 VDC / 120 VDC	116 VDC / 150 VDC		225 VDC / 250 VDC	320 VDC / 350 VDC
MPP Voltage Range	120 VDC ~ 320 VDC	250 VDC ~ 450 VDC	277 VDC ~ 450 VDC	250 VDC ~ 850 VDC	400 VDC ~ 800 VDC
Number of MPP Trackers / Maximum Input Current	1 / 1 x 15 A	1 / 1 x 18 A		2 / 2 x 10 A	2 / 2 x 18.6A
<b>GRID OUTPUT (AC)</b>					
Nominal Output Voltage	101/110/120/127 VAC	208/220/230/240 VAC			230 VAC (P-N) / 400 VAC (P-P)
Output Voltage Range	88 - 127 VAC*	184 - 265 VAC*			184 - 265 VAC* per phase
Nominal Output Current	18 A	13 A	21 A	21 A	14.5A per phase
Power Factor	> 0.99				
<b>EFFICIENCY</b>					
Maximum Conversion Efficiency (DC/AC)	95%	96%			
European Efficiency@ Vnominal	94%	95%			
<b>OFF-GRID OPERATION</b>					
<b>AC INPUT</b>					
AC Start-up Voltage/Auto Restart Voltage	60 - 70 VAC / 85 VAC	120 - 140 VAC / 180 VAC			120 - 140 VAC per phase / 180 VAC per phase
Acceptable Input Voltage Range	80 - 130 VAC	170 - 280 VAC			170 - 280 VAC per phase
Maximum AC Input Current	30 A			40 A	
<b>PV INPUT (DC)</b>					
Maximum DC Voltage	350 VDC	500 VDC	500 VDC	900 VDC	900 VDC
MPP Voltage Range	150 VDC ~ 320 VDC	250 VDC ~ 450 VDC	277 VDC ~ 450 VDC	250 VDC ~ 850 VDC	400 VDC ~ 800 VDC
Number of MPP Trackers / Maximum Input Current	1 / 1 x 15 A	1 / 1 x 18 A	1 / 1 x 18 A	2 / 2 x 10A	2 / 2 x 18.6A
<b>BATTERY MODE OUTPUT (AC)</b>					
Nominal Output Voltage	101/110/120/127 VAC	202/208/220/230/240 VAC	220/230/240 VAC	202/208/220/230/240 VAC	230 VAC (P-N) / 400 VAC (P-P)
Output Waveform	Pure Sinewave				
Efficiency (DC to AC)	90%	93%			91%

HYBRID OPERATION					
<b>PV INPUT (DC)</b>					
Nominal DC Voltage / Maximum DC Voltage	300 VDC / 350 VDC	360 VDC / 500 VDC	360 VDC / 500 VDC	720 VDC / 900 VDC	720 VDC / 900 VDC
Start-up Voltage / Initial Feeding Voltage	80 VDC / 120 VDC	116 VDC / 150 VDC	116 VDC / 150 VDC	225 VDC / 250 VDC	320 VDC / 350 VDC
MPP Voltage Range	150 VDC ~ 320 VDC	250 VDC ~ 450 VDC	277 VDC ~ 450 VDC	250 VDC ~ 850 VDC	400 VDC ~ 800 VDC
Number of MPP Trackers / Maximum Input Current	1 / 1 x 15 A	1 / 1 x 18 A	1 / 1 x 18 A	2 / 2 x 10A	2 / 2 x 18.6A
<b>GRID OUTPUT (AC)</b>					
Nominal Output Voltage	101/110/120/127 VAC	202/208/220/230/240 VAC	220/230/240 VAC	202/208/220/230/240 VAC	230 VAC (P-N) / 400 VAC (P-P)
Output Voltage Range	88-127 VAC*		184 - 264.5 VAC*		184 - 264.5 VAC* per phase
Nominal Output Current	18 A	13 A	21 A	21 A	14.5 A per phase
<b>AC INPUT</b>					
AC Start-up Voltage / Auto Restart Voltage	60 - 70 VAC / 85 VAC		120 - 140 VAC / 180 VAC		120 - 140 VAC per phase / 180 VAC per phase
Acceptable Input Voltage Range	80 - 130 VAC		170 - 280 VAC		170 - 280 VAC per phase
Maximum AC Input Current		30 A		40 A	
<b>BATTERY MODE OUTPUT (AC)</b>					
Nominal Output Voltage	101/110/120/127 VAC	202/208/220/230/240 VAC	220/230/240 VAC	202/208/220/230/240 VAC	230 VAC (P-N) / 400 VAC (P-P)
Efficiency (DC to AC)	90%		93%		91%
<b>BATTERY &amp; CHARGER</b>					
Nominal DC Voltage			48 VDC		
Maximum Charging Current	Default 25A, 5A - 25A (Adjustable)		Default 30 A, 5A - 30A (Adjustable)	Default 60A, 5A - 100A (Adjustable)	Default 60A, 10A - 200A (Adjustable)
<b>GENERAL</b>					
<b>PHYSICAL</b>					
Dimension, D X W X H (mm)		107 x 438 x 480		204.2 x 460 x 600	167.5 x 500 x 622
Net Weight (kgs)		15.5	16	29	45
<b>INTERFACE</b>					
Communication Port		RS-232/USB		RS-232/USB and CAN Interface	
Intelligent Slot		Optional SNMP, Modbus and AS-400 cards available			
<b>ENVIRONMENT</b>					
Humidity		0 ~ 90% RH (No condensing)			
Operating Temperature		0 to 40°C			-10 to 55°C
Altitude		0 ~ 1000 m**			

\*These figures may vary depending on different AC voltage and country requirements.  
 \*\*Power derating 1% every 100 m when altitude is over 1000m.  
 Product specifications are subject to change without further notice.



# OMEGA WATER PUMP

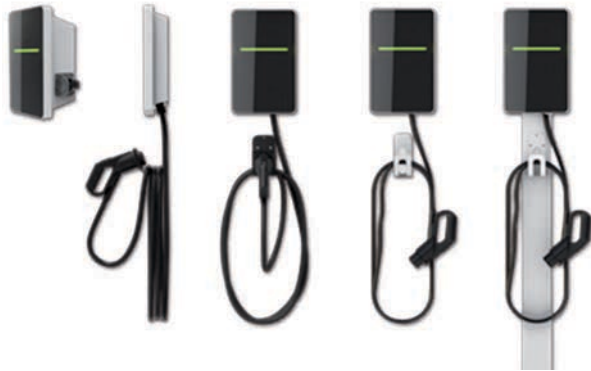


- Built-in MPPT solar charger
- Supports three-phase motor
- Compatible to utility or generator input
- Built-in full protection and self-diagnosis
- Soft start function prevents water hammer effect and extends system lifecycle
- Comprehensive LCD and LEDs display real-time system status
- Remote monitoring through RS-485

MODEL	OMEGA 2.2KW	OMEGA 7.5KW	OMEGA 11KW
Maximum PV Array Power	3500 W	12000 W	17600 W
Rated Output Power	2200 W	7500 W	11000 W
<b>PV INPUT (DC)</b>			
Maximum DC Voltage	800 VDC		
Start-up Voltage	350 VDC		
MPPT Voltage Range	500 VDC ~ 600VDC		
Number of MPP Trackers	1		
Input Current	4.3 A	14.5 A	21.3 A
<b>OPTIONAL AC INPUT</b>			
Input Voltage	3 x 380VAC/400VAC/415VAC/440VAC		
Maximum Input Current	5.8 A	20.5 A	27 A
Apparent Power	4000 VA	11000 VA	16500 VA
<b>OUTPUT</b>			
Nominal Voltage	3 x 380/400/415/440 VAC		
Efficiency	> 97%		
Output Current	5.1 A	17 A	26 A
Motor Type	Three-phase asynchronous motor		
Frequency Precision	±0.2%		
<b>PROTECTION</b>			
Full Protection	Over-voltage, under-voltage, over-current, surge, over-temperature and short circuit protection		
<b>PHYSICAL</b>			
Dimension, D X W X H (mm)	110 x 230 x 342		
Net Weight (kgs)	5.5	6	6.5
Type of Mechanical Protection	IP20		
<b>INTERACE</b>			
Communication Port	RS-232/RS-485		
<b>ENVIRONMENT</b>			
Humidity	< 95% RH (No condensing)		
Operating Temperature	-20°C~45°C at 100% full load, 46°C~60°C power derating		

Product specifications are subject to change without further notice

# CHARGING STATION



- Stylish metallic enclosure design
- IP65 UV protection to increase sustainability
- Easy upgrade and integrate with various communications
- Diverse installation : wall-mount, pedestal and pole-mount

MODEL	EV3500-AM-00 EV7000-AM-00	EV3500-BM-00 EV7000-BM-00	EV3500-AM-01 EV7000-AM-01	EV3500-AM-02 EV7000-AM-02	EV3500-AM-04 EV7000-AM-04
<b>Maximum Power Rating</b>	3.5KW/7KW	3.5KW/7KW	3.5KW/7KW	3.5KW/7KW	3.5KW/7KW
<b>Application</b>	Charging Station	Charging Station	Commercial parking lot	Residential	Customized
<b>PHYSICAL</b>					
Mounting Type	Wall mount / Pedestal				
Charging Connector	Charging Plug x 1	Receptacle x 1	Charging Plug x 1	Charging Plug x 1	Charging Plug x 1
Cable Length	4 m	-	4 m	4 m	4 m
Input Wiring	From top for wall mount type / From bottom for pedestal type				
Output Wiring	From bottom				
Dimension, DxWxH (mm)	353 x 218 x 146				
Accessory Dimension, DxWxH (mm)	Wall mount bracket	223 x 170 x 62			
	Pedestal	120 x 65 x 1283			
Net Weight (kgs)	< 7				
<b>ELECTRIC CHARACTERISTIC</b>					
Input Voltage	220VAC				
Input Frequency	50 Hz				
Output Voltage	220VAC				
Output Current	32A / 16A				
Standby Power Consumption	3 W				
<b>ENVIRONMENT</b>					
Working Temperature	-30°C ~ 55°C				
Working Humidity	5% ~ 95% (non-condensing)				
Altitude	< 3000m				
Protection Grade	IP65				
Cooling Method	Natural Cooling				
MTBF	100,000 hours				
Special Protection Design	UV Protection				
<b>PROTECTION</b>					
Full Protection	Overvoltage, undervoltage, overload, short circuit, leakage, ground fault, over temperature, anti-topple and surge protection				
<b>INTERFACE</b>					
CAN Communication	•	•	•	•	•
Bluetooth			•		
Mobile Pay	•	•	•		•
Credit Card Payment					•
LCD and Keyboard					•
LED Indicators	•	•	•	•	•
DI/DO Connectors	•	•	•	•	•

Product specifications are subject to change without further notice



# Inverter Series



Polígono industrial La Dehesa C/ Dehesa Vieja, nº2 Nave 16 28052 Madrid (Spain)

Tel. (+34) 918 021 649 Fax. (+34) 917 750 642

info@masterbattery.es

www.masterbattery.es

