



RS-MGA 6KW - 12KW

Hybrid Solar Inverter RS-MGA Series

RS-MGA Series 6KW - 12KW (1 ph in / 1ph out)

Key Features:

- Pure sine wave inverter.
- Protection level: IP65.
- Configurable input voltage range for home appliances and personal computers via LCD setting.
- Configurable battery charging current based on applications via LCD setting.
- Configurable AC / Solar Chager priority via LCD setting.
- Compatible to mains voltage or generator power.
- Auto restart whle AC is recovering.
- Overload / Over temperature / short circuit protection.
- Smart battery charger design for optimized battery performance.
- Cold start function.
- It can realize the simultaneous use of less than six machines.
- Built-in WIFI for mobile monitoring(APP required),can connect and communicatewith the lithium battery.
- The allowable charge and discharge time can be set.



Shenzhen UPSen Electronic CO.,Ltd.
www.upsen.net

Technical Specification:

Model	RS-MGA 6KW	RS-MGA 8KW	RS-MGA 10KW	RS-MGA 12KW
Phase	1-Phase in / 1-Phase out			
Maximum PV Input Power	9000W	13500W	16200W	16200W
Rated Output Power	6000W	8000W	10000W	12000W
Maximum Charging Power	6000W	8000W	10000W	12000W
GRID-TIE OPERATION				
PV INPUT(DC)				
Maximum DC Voltage	520VDC			
Start-up Voltage / Initial Feeding Voltage	90VDC / 120VDC			
MPPT Voltage Range	50 - 450VDC			
Number of MPPT Trackers / Maximum Input Current	2/18A	2/18A + 36A	2/18A + 36A	2/18A + 36A
GRID OUTPUT(AC)				
Nominal Output Voltage	220 / 230 / 240VAC			
Output Voltage Range	184-264.5VAC or 195.5-253VAC or 184-264.4VAC(Selectable)			
Nominal Output Current	26.1A	34.8A	43.5A	52.2A
Power Factor	> 0.99			
EFFICIENCY				
Maximum Conversion Efficiency (DC/AC)	97%			
OFF-GRID OPERATION				
AC INPUT				
AC Start-up Voltage /Auto Restart Voltage	120-140VAC / 180VAC			
Acceptable Input Voltage Range	90-280 VAC			
Frequency Range	50Hz / 60Hz (Auto sensing)			
Maximum AC Input Current	40A	50A	60A	70A
PV INPUT(DC)				
Maximum DC Voltage	520VDC			
MPPT Voltage Range	50VDC - 450VDC			
Number of MPPT Trackers / Maximum Input Current	2/18A	2/18A + 36A	2/18A + 36A	2/18A + 36A
BATTERY MODE OUTPUT(AC)				
Nominal Output Voltage	220 / 230 / 240VAC			
Output Waveform	Pure Sine Wave			
Efficiency (DC to AC)	93%			
HYBRID OPERATION				
PV INPUT(DC)				
Maximum DC Voltage	520VDC			
Start-up Voltage / Initial Feeding Voltage	90VDC / 120VDC			
MPPT Voltage Range	50 - 450VDC			
Number of MPPT Trackers/Maximum Input Current	2/18A	2/18A + 36A	2/18A + 36A	2/18A + 36A
GRID OUTPUT(AC)				
Nominal Output Voltage	220 / 230 / 240VAC			
Output Voltage Range	184-264.5VAC or 195.5-253VAC or 184-264.4VAC (Selectable)			
Nominal Output Current	26.1A	34.8A	43.5A	52.2A
AC INPUT				
AC Start-up Voltage/Auto Restart Voltage	120-140VAC / 180VAC			
Acceptable Input Voltage Range	90 - 280VAC or 170 - 280VAC			
Maximum AC Input Current	40A	50A	60A	70A
BATTERY MODE OUTPUT(AC)				
Nominal Output Voltage	220 / 230 / 240VAC			
Efficiency (DC to AC)	93%			
Nominal DC Voltage	48VDC			
Maximum Solar Charging Current	135A	190A	220A	250A
Maximum AC Charging Current	135A	190A	220A	250A
Maximum Charging Current	135A	190A	220A	250A
GENERAL PHYSICAL				
Dimension, D * W * H(mm)	521*470*236	600*483*260		
Net Weight (kg)	30	38	42	45
INTERFACE				
Parallel Function	Yes, 9 units			
Communication Port	RS232 / RS485 / CAN / WiFi / Dry contact			
ENVIRONMENT				
Humidity	5% to 95% Relative Humidity (Non-condensing)			
IP degree	IP65			
Operating Temperature	-10°C ~ 50°C			
Storage Temperature	-15°C ~ 60°C			
*Product Specifications are Subject to Change Without Notice.				