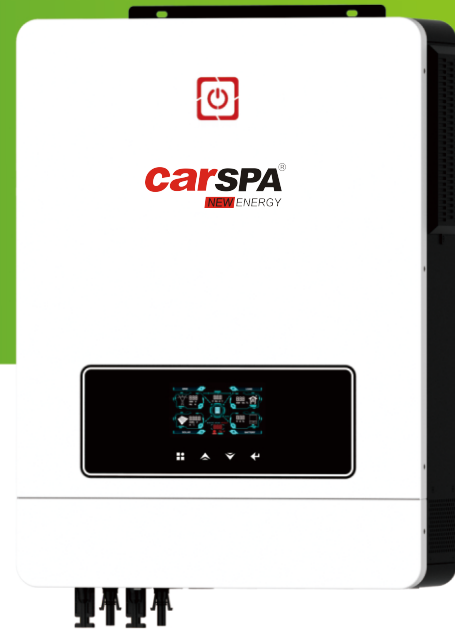
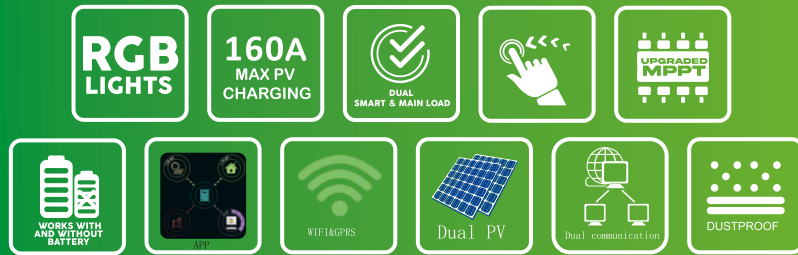


ON/OFF GRID SOLAR INVERTER

MKS SERIES

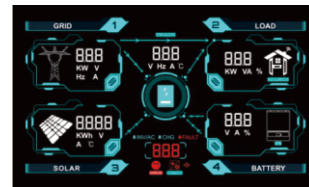
On/Off Grid Solar Inverter



»» Features

- Pure sine wave solar inverter(on/off Grid)
- Output power factor 1.0
- WIFI&GPRS available for IOS and Android
- Inverter can run without battery
- One-key restoration to factory Settings
- Built-in Lithium battery automatic activation
- Built-in 160A MPPT solar charger (for 8.2kw,10.2kw)
- Dual communication ports for Battery communication and Wifi communication
- High PV input voltage range(90~ 500VDC)
- Built-in anti-dust kit for harsh environment
- Smart battery charge design to optimize battery life
- Dual output
- Dual PV input
- Touch button
- On Off Grid Work Mode

»» Overview



- (R) INVERTER MODE
- (G) PV MODE
- (B) UTILITY MODE



»» Product Data Sheet

MODEL	MKS 8.2KW	MKS 10.2KW
Phase	1-phase	
Maximum PV Input Power	5400W+5400W	
Rated Output Power	8200W/8200VA	10200W/10200VA
Maximum Solar Charging Current	160A	
GRID-TIE OPERATION		
PV INPUT (DC)		
Nominal DC Voltage/Maximum DC Voltage	360/500VDC	
Start-up Voltage / Initial Feeding Voltage	90VDC/120VDC	
MPPT Voltage Range	90~450VDC	
Maximum Input Current	2/18A	
GRID OUTPUT (AC)		
Nominal Output Voltage	220/230/240VAC	
Output Voltage Range	190~253VDC	
Nominal Output Current	35.6A	44.3A
Power Factor	>0.99	

EFFICIENCY

Maximum Conversion Efficiency (DC/AC)	98%
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TWO LOAD OUTPUT POWER

Full Load	8200W	10200W
Maximum Main Load	8200W	10200W
Maximum Second Load(battery mode)	2733W	3400W
Maximum Load Cut Off Voltage	52VDC	
Maximum Load Return Voltage	54VDC	

OFF-GRID OPERATION

AC INPUT

AC Start-up Voltage / Auto Restart Voltage	120-140VAC/180VAC	
Acceptable Input Voltage Range	90-280VACor170-280VAC	
Frequency Range	49~51±1HZ	
Maximum AC Input Current	40A	50A

PV INPUT (DC)

Nominal DC Voltage/Maximum DC Voltage	360/500VDC	
MPPT Voltage Range	90~450VDC	
Maximum Input Current	2/18A	

BATTERY MODE OUTPUT (AC)

Nominal Output Voltage	220/230/240VAC	
Output Waveform	Pure sine wave	
Efficiency (DC to AC)	94%	

BATTERY & CHARGER

Nominal DC Voltage	48VDC	
Maximum Solar Charging Current	160A	
Maximum AC Charging Current	140A	
Maximum Solar+AC Charging Current	160A	

HYBRID OPERATION

PV INPUT (DC)

Nominal DC Voltage/Maximum DC Voltage	360/500VDC	
Start-up Voltage / Initial Feeding Voltage	90VDC/120VDC	
MPPT Voltage Range	90~450VDC	
Maximum Input Current	2/18A	

GRID OUTPUT (AC)

Nominal Output Voltage	220/230/240VAC	
Output Voltage Range	190~253VDC	
Nominal Output Current	35.6A	44.3A

AC INPUT

AC Start-up Voltage / Auto Restart Voltage	120-140VAC/180VAC	
Acceptable Input Voltage Range	90-280VACor170-180VAC	
Maximum AC Input Current	40A	50A
Maximum AC Charging Current	140A	

GENERAL

PHYSICAL

Dimension, D x W x H (mm)	530*390*130	
Carton Dimension,D X W XH(mm)	618*463*205	
Net Weight (kgs)	14.2	14.7
Gross Weight(kgs)	15.7	16.2

INTERACE

Communication Port	RS232/RS485/WIFI/GPRS/LITHIUM BATTERY	
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ENVIRONMENT

Humidity	5% to 95% Relative Humidity(Non ~ condensing)	
Operating Temperature	-10℃ ~ 50℃	

STANDARD

Compliance Safety	CE	
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