

# 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 forIOS and Android
- Inverter can run without battery
- One-key restoration to factory Settings
- Built-in Lithium battery automatic activation
- Built-in 120AMPPT Solar charge:max 6200W(for 3.6kW/4.2kW) max 6500W(for 6.2kW)
- High PV input voltage range(60~500VDC)
- Built-in anti-dust kit for harsh environment
- Smart battery charge design to optimize battery life
- Dual output
- Dual communication ports for Battery communication and Wifi communication



### »» Product Data Sheet

MODEL	MKS 3.6KW	MKS 4.2KW	MKS 6.2KW
Phase		1-phase	
Maximum PV Input Power	6200W	6200W	6500W
Rated Output Power	3600W/3600VA	4200W/4200VA	6200W/6200VA
Maximum Solar Charging Current		120A	
<b>GRID-TIE OPERATION</b>			
<b>PV INPUT (DC)</b>			
Nominal DC Voltage/Maximum DC Voltage	360/500VDC		
Start-up Voltage / Initial Feeding Voltage	60VDC/90VDC		
MPPT Voltage Range	60~450VDC		
Maximum Input Current	1/18A		1/22A
<b>GRID OUTPUT (AC)</b>			
Nominal Output Voltage	220/230/240VAC		
Output Voltage Range	195.5~253VAC		
Nominal Output Current	15.7A	18.2A	27.0A
Power Factor	>0.99		

### EFFICIENCY

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

Full Load	3600W	4200W	6200W
Maxium Main Load	3600W	4200W	6200W
Maxium Second Load(battery mode)	1200W	1400W	2067W
Maxium Load Cut Off Voltage	26VDC	26VDC	52VDC
Maxium Load Return Voltage	27VDC	27VDC	54VDC

### OFF-GRID OPERATION

#### AC INPUT

AC Start-up Voltage / Auto Restart Voltage	120-140VAC/180VAC		
Acceptable Input Voltage Range	90-280VAC or 170-280VAC		
Frequency Range	49~51 ±HZ		
Maximum AC Input Current	30A	30A	40A

#### PV INPUT (DC)

Nominal DC Voltage/Maximum DC Voltage	360/500VDC		
MPPT Voltage Range	60~450VDC		
Maximum Input Current	1/18A		1/22A

#### 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	24VDC		48VDC
Maximum Solar Charging Current	120A	140A	120A
Maximum AC Charging Current	100A	100A	100A
Maximum Solar+AC Charging Current	120A	140A	120A

### HYBRID OPERATION

#### PV INPUT (DC)

Nominal DC Voltage/Maximum DC Voltage	360/500VDC		
Start-up Voltage / Initial Feeding Voltage	90VDC/120VDC		
MPPT Voltage Range	60~450VDC		
Maximum Input Current	1/18A		1/22A

#### GRID OUTPUT (AC)

Nominal Output Voltage	220/230/240VAC		
Output Voltage Range	195.5~253VAC		
Nominal Output Current	15.7A	18.2A	27.0A

#### 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	30A	30A	40A
Maximum AC Charging Current	100A		

### GENERAL

#### PHYSICAL

Dimension, D x W x H (mm)	420*350*110		
Carton Dimension,D X W XH(mm)	500*415*180		
Net Weight (kgs)	8.0	8.0	8.9
Gross Weight(kgs)	9.0	9.0	10.0

#### 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°C ~ 50 °C

#### STANDARD

Compliance Safety	CE
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