

ON/OFF GRID SOLAR INVERTER

FR 10.2KW SERIES



INVERTER MODE



PV MODE



UTILITY MODE































>>> 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) On Off Grid Work Mode
- 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



>>> Product Data Sheet

MODEL	FR -8.2KW-48V	FR -10.2KW-48V
Phase	1-pt	nase
Maximum PV Input Power		+5400W
Rated Output Power	8200W/8200VA	10200W/10200VA
Maximum Solar Charging Current	16	0A
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)	220/230/240VAC	
Nominal Output Voltage Output Voltage Range	195~253VAC	
Nominal Output Current	35.6A 44.3A	
Power Factor	>0.99	
EFFICIENCY		
Maximum Conversion Efficiency (DC/AC)	9	8%
TWO LOAD OUTPUT POWER		- 70
Full Load	8200W	10200W
Maxium Main Load	8200W	10200W
Maxium Second Load(battery mode)	2733W	3400W
Maxium Load Cut Off Voltage	52	VDC
Maxium 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	59~61±1HZ	
Maximum AC Input Current	48.2A	60A
PV INPUT (DC) Nominal DC Voltage/Maximum DC Voltage		2015
*	360/500VDC	
MPPT Voltage Range	90~450VDC 2/18A	
Maximum Input Current BATTERY MODE OUTPUT (AC)	21	10A
Nominal Output Voltage	220/230/240VAC	
Output Waveform	Pure sine wave	
Efficiency (DC to AC)	94%	
BATTERY & CHARGER	<u> </u>	
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)	220/230/240VAC	
Nominal Output Voltage		
Output Voltage Range	195~25	
Nominal Output Current AC INPUT	35.6A	44.3A
AC Start-up Voltage / Auto Restart Voltage	120-140\/	AC/180VAC
Acceptable Input Voltage Range	120-140VAC/180VAC 90-280VAC or 170-280VAC	
Maximum AC Input Current	48.2A 60A	
Maximum AC Charging Current		0A
GENERAL		
PHYSICAL		
Dimension,D*W*H(mm)	530x3	90x130
Cartoon Dimension,D *W *H(mm)		65*205
Net Weight (kgs)	14.2	14.7
Gross Weight(kgs)	15.7	16.2
INTERACE		
Communication Port	RS232/RS485/WIFI/GP	RS/LITHIUM BATTERY
ENVIRONMENT		
Humidity	5% to 95% Relative Humidity(Non~condensing)	
Operating Temperature	-10°C~50°C	
STANDARD		
Compliance Safety	CE	