

**OFF-GRID SOLAR INVERTER AN-FGI-AS 3.6KW/6.2KW**

**»» 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
- AC output voltage 120VAC
- Built-in 120AMPPT Solar charge:
- Max PV input 4200W (for 3.6KW); max 6000W (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

MODEL	AN-FGI-AS 3.6KW	AN-FGI-AS 6.2KW
Phase	1-phase	
Maximum PV Input Power	4200W	6000W
Rated Output Power	3600W/3600VA(3000/3150/3300)	6200W/6200VA(5300/5500/5700)
Maximum Solar Charging Current	120A	100A

GRID-TIE OPERATION		
<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	120VAC(100/105/115V settable)	
Output Voltage Range	90-150VDC	
Nominal Output Current	30A	51.5A
Power Factor	>0.99	
<b>EFFICIENCY</b>		
Maximum Conversion Efficiency (DC/AC)	98%	
<b>TWO LOAD OUTPUT POWER (DC/AC)</b>		
Full Load	3600W	6200W
Maxium Main Load	3600W	6200W
Maxium Second Load(battery mode)	1200W	2067W
Maxium Load Cut Off Voltage	26VDC	52VDC
Maxium Load Return Voltage	27VDC	54VDC
<b>OFF-GRID OPERATION</b>		
<b>AC INPUT</b>		
AC Start-up Voltage /Auto Restart Voltage	110VAC/120VAC	
Acceptable Input Voltage Range	90~145AC±2%	
Frequency Range	49~51+1HZ	
Maximum AC Input Current	40A	80A
<b>PV INPUT (DC)</b>		
Nominal DC Voltage/Maximum DC Voltage	360/500VDC	
MPPT Voltage Range	60~450VDC	
Maximum Input Current	1/18A	1/22A
<b>BATTERY MODE OUTPUT (AC)</b>		
Nominal Output Voltage	120VAC(100/105/115V settable)	
Output Waveform	Pure sine wave	
Efficiency (DC to AC)	94%	
<b>BATTERY &amp; CHARGER</b>		
Nominal DC Voltage	24VDC	48VDC
Maximum Solar Charging Current	120A	120A
Maximum AC Charging Current	100A	100A
Maximum Solar+AC Charging Current	120A	120A
<b>HYBRID OPERATION</b>		
<b>PV INPUT (DC)</b>		
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
<b>GRID OUTPUT (AC)</b>		
Nominal Output Voltage	120VAC(100/105/115V settable)	
Output Voltage Range	60-450VDC	
Nominal Output Current	30A	51.6A
<b>AC INPUT</b>		
AC Start-up Voltage /Auto Restart Voltage	120-140VAC/180VAC	
Acceptable Input Voltage Range	90-280VAC or 170-280VAC	
Maximum AC Input Current	40A	80A
Maximum Charging Current	120A	100A
<b>GENERAL</b>		
<b>PHYSICAL</b>		
Dimension,D*W*H(mm)	420*350*110	
Cartoon Dimension,D *W *H(mm)	500*415*180	
Net Weight (kgs)	8.8	9.5
Gross Weight(kgs)	10	11.5
<b>INTERACE</b>		
Communication Port	RS232/RS485/WIFI/GPRS/LITHIUM BATTERY	
<b>ENVIRONMENT</b>		
Humidity	5% to 95% Relative Humidity(Non~condensing)	
Operating Temperature	-10°C~50°C	
<b>STANDARD</b>		
Compliance Safety	CE	