

# 3PH ON-GRID SOLAR INVERTER

(10KVA - 1250KVA)



UPS

INVERTERS

ACCESSORIES

AVR

BATTERIES

SOLAR SOLUTION



DSP control technology



Parallel Mode



Suitable for either single phase or three-phase applications

## BENEFITS

- ✓ Advanced DSP control technology delivers accurate data
- ✓ Built-in smart MPPTs to enhance overall efficiency
- ✓ Up to 98.6% high conversion efficiency
- ✓ Modulized design for easy maintenance
- ✓ Industrial-grade components used for robust operation
- ✓ High performance redundancy cooling system
- ✓ IP 65 protection for outdoor and harsh environment
- ✓ 1-year product warranty
- ✓ Optional monitoring software
- ✓ Option parallel operation

## APPLICATION



House Backup



Factories



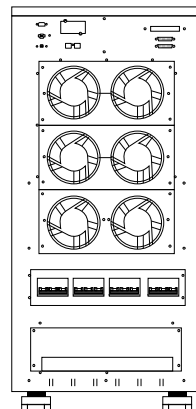
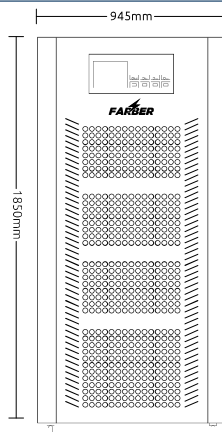
Oil and gas fields



Electricity plants

## SCHEMATIC

(500KVA-630KVA)



## FEATURES



Pure sine wave output



Technology protects against short circuit



Technology increases battery lifetime



Technology protects loose connection



Technology protects against low battery



Technology protects against reverse polarity

# SPECIFICATION

MODEL NUMBER	10KVA	50KVA	100KVA	250KVA	500KVA	630KVA
Capacity	10KW	50KVA	100KVA	250KW	500KW	630KW
<b>DC INPUT</b>						
Max. DC power	12 KW	55 KW	110 KW	275KW	550KW	690KW
Max. DC voltage				900VDC	1000VDC	
Operating Voltage Range	200~850VDC			-		
MPPT voltage range	250~850Vdc (Rated voltage 580Vdc)		450~850Vdc (Rated voltage 576Vdc)			
Number of MPPT trackers	3			1		
Max. input current per MPPT Tracker	12A/12A/12A	120A	240A	600A	1200A	1440A
<b>AC OUTPUT</b>						
Rated output power	10KW	50KVA	100KVA	250KW	500KW	630KW
Rated output voltage	400VAC					
AC output topology	Hardwire 5-wire (3 Ph+N+G)					
Output voltage range	400VAC±20% (adjustable)		(1+15%) * Normal AC Voltage (Adjustable ±5%,±10%,±15%,±20%)			
Grid frequency range	50 / 60Hz (±5Hz) , (adjustable)					
Rated AC output current	15.2A	72A	144A	361A	722A	909A
Max. output current	17A	79A	158A	397A	794A	1000A
Power factor	1 (Lagging0.9~Leading0.9) (adjustable)					
THDI	< 3%					
<b>PROTECTION</b>						
DC Reserve-Polarity Protection				Yes		
Ground Fault Monitoring				Yes		
Grid Monitoring				Yes		
AC Short Circuit Protection				Yes		
Over Current Protection				Yes		
<b>SYSTEM FEATURES</b>						
Max. efficiency	> 98.0%	> 97.0%	> 97.5%	> 97.6%	> 98.10%	> 98.10%
Euro efficiency	> 97.5%	> 96.5%	> 97.0%	> 97.0%	> 97.6%	> 97.6%
MPPT efficiency	99.9%					
Cooling	Forced air cooling					
Communication interface	RS485 , external Ethernet (optional)					
<b>ENVIRONMENT</b>						
Operating temperature	-20°C to 60°C (optional)					
Humidity range	0- 95% (non-condensing)					
Noise level	<40dB	<58dB		<60dB		
<b>PHYSICAL</b>						
Dimension, D x W x H (mm)	506×670×210	600×1600×945	835×1850×945	1200×1850×945	1600×1850×945	
Net weight (kg)	44	520	900	1470	2800	3150

Available capacity: 10KVA, 12.5KVA, 15KVA, 17KVA, 20KVA, 30KVA, 50KVA, 100KVA, 250KVA, 500KVA, 630KVA, 750KVA, 1000KVA & 1250KVA

Modeling number: FA-ON-INV-XXKVA-3PH, Where XX=INVERTER capacity



Technology for instant change-over between power and battery and vice-versa



Allows remote control and monitoring of UPS



Quick charge / normal charge options



Log data stored in centralized PC database



Technology protects against overload



support grid-tie, off-grid and grid-tie with backup modes

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