



Fine Power™

A Product of LDS Technologies Inc. USA

Off-Grid Solar Inverter With isolated transformer 400W~10KW



General Descriptions

FPG series products are on the basis of Green energy use and equipment electricity need for remote area, combing the electricity characteristics of household appliances, communication station equipment and computer peripheral equipment. They have the function of energy conservation and environment protection. They adopt MCU control technique, having various kinds of function such as multi-setting mode, MPPT control, voltage stabilization on line, short-circuit protection, inverter frequency adaptive, output overload, battery charging management, monitoring etc. FPG series products are the idea power with high cost performance equipped with high stability, high reliability, high practical applicability.

Features

- ✓ Multi-setting
 - PV priority mode or AC priority mode
 - Choose the charging current based on the configured capacity of the battery
- ✓ High reliability: Double MPU digital control
 - Independent MPPT (Maximum Power Point Tracking) control microprocessor system
 - Independent inverter microprocessor control system
- ✓ Isolated and pure sine wave technology
- ✓ LCD+LED display mode
- ✓ Wide input range
- ✓ High-speed synchronous conversion
- ✓ Friendly alarm system
- ✓ Unattended and intelligent monitoring (RS232 or USB,SNMP)
- ✓ Online protection function
- ✓ Intelligent No-load auto shutdown technology (optional)
- ✓ Frequency adaptive

Specifications

Model	FPG400	FPG800	FPG1200	FPG1600	FPG2400	FPG3000	FPG5000	FPG6000	FPG10000
Power	400W	800W	1200W	1600W	2400W	3KW	5KW	6KW	10KW
Battery voltage /range	24Vdc/21-30Vdc		48Vdc/42-60Vdc			192Vdc			
Working mode	PV(Photovoltaic priority) / AC (AC priority) Optional								
PV									
MPPT voltage range	24Vdc - 45Vdc		48 Vdc - 90Vdc			192Vdc-400Vdc			
Max. charge current	10A/20A/30A/40A/50A/60A (option offered)								
Conversion efficiency	≥ 98 %								
Display									
Panel indicator light	LCD + LED display								
Mains status (Optional)									
Input voltage range	100/110/120/220/230/240VAC ± 25% { Customized }								
Input frequency range	45-65 Hz { Automatically transfer to inverter power when overfrequency }								
Output voltage range	100/110/120/220/230/240VAC ± 10%					220VAC ± 5%			
Input PF. (AC/DC)	≥ 98%					≥ 80%			
Charge current	15A max. (PV no input current, battery ≤ 90%)					12A max. (PV no input current, battery ≤ 90%)			
Efficiency(Mains mode)	≥ 96%					≥ 90%			
Mains overload	110% 60s transfer to bypass power; 120% transfer to bypass power after 30s; automatically recover when decrease load								
Short circuit	Input fuse					Circuit Breaker			
Inverter output									
Inverter output voltage	100/110/120/220/230/240VAC ± 5%								
Output frequency	50 Hz / 60Hz ± 1% frequency adaptive								
Output power factor	0.8								
Wave form distortion	Linear load ≤ 5%								
Battery backup	≥ 10minutes (PC load)								
PV-AC transfer time	5Ms typical value Max.8 Ms					≤ 0Ms			
Max.Efficiency	≥ 84.5%					≥ 88%			
Inverter overload	110% shutdown at 60s, 120% shutdown at 5s								
No-load off (Optional)	Load < 5% The system automatically shut down at 1MIN, transfer to bypass power supply								
Short circuit	Systems automatically shut down								
Alarm									
Mains abnormal	1/4S; automatic sound elimination after 40s								
Low battery	1 / 0.2S								
Overload	1 / 1S								
Communication interface(Optional)	RS232 / USB / SNMP (Setup available for regular start/shutoff)								
Others									
Output sockets	Universal sockets 3PCS / customized					Terminals			
Surge protection	Optional								
EMC	EN62040-2:2006;EA61000-3-2:2006; EA61000-3-3:2008								
IP class	IP20								
Ambient temperature	0°C ~ 40°C								
Ambient humidity	10% ~ 90%(Non Condensed)								
Noise	≤ 50dB								
Dimension D*W*H (MM)	Hanging model		380 × 195 × 478						
	Tower model		420 × 145 × 215	475 × 200 × 337			540 × 265 × 725		
Packing dimension D*W*H (MM)	Hanging model		455 × 255 × 522						
	Tower model		515 × 236 × 316	592 × 320 × 462			650 × 355 × 815		
Weight (kg)	11	13	18.8	23.7	27.0				
Packing weight (kg)	11.8	13.8	20.0	25.0	28.2				

- ◆ All specifications subject to change without notice.
- ◆ Custom-made specifications are acceptable.