

XPI Series Hybrid Charger & Inverter



XPI 0.5kVA~7kVA

Features

- MPPT controller, maximize utilization of solar panels
- Integrated design with controller, inverter and transformer
- Pure sine wave output
- Output isolated transformer, safe and stable
- AC power/diesel generator input interface (optional)
- Excellent overload capacity
- Suitable for all sorts of electrical appliances
- Intelligent battery management function
- Complete protections
- LCD display + LED status indicator

Description

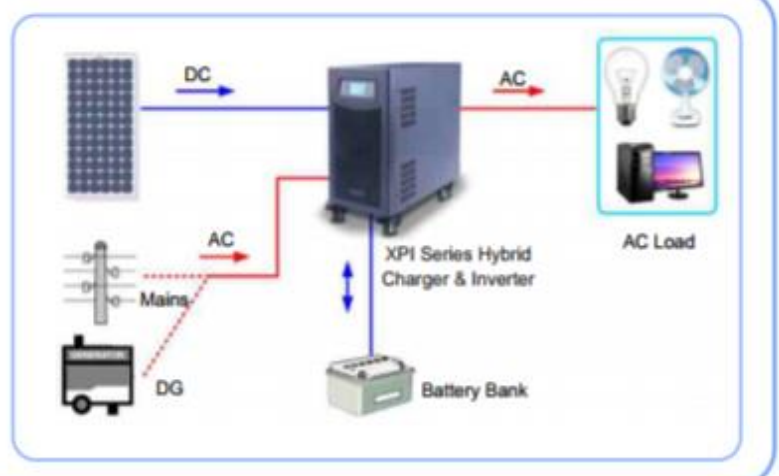
- XPI series single-phase off-grid inverter consist of 3 functional modules: solar controller, pure sine wave inverter and insulated transformer. The controller adapts MPPT technology and intelligent battery management design which is very efficient and smart; integrated pure sine wave inverter and low frequency isolated transformer makes it with excellent overload performance, suitable for a variety of electrical appliances. It supports city power/generator input, take advantages of old diesel generators, saving initial investment and operation maintenance cost.
- XPI series is mainly applied in remote animal husbandry, fishery area and big family to solve people's electricity problems.

Optional Models:

XPI 0.5kVA-D M L

① ② ③ ④ ⑤

- ① Single-phase off-grid solar inverter
- ② Rated capacity
- ③ U: Utility power input; D: Diesel generator input
- ④ M: MPPT charge controller; P: PWM charge controller
- ⑤ S: Internal battery; L: External battery



Technical data

Model (XPI)	XPI _KVA-DMS/DML/ DPS/DPL/UMS/UML/UPS/UPL										
	0.5kVA	0.7kVA	1.0kVA	1.5kVA	2.0kVA	3.0kVA	4.0kVA	5.0kVA	6.0kVA	7.0kVA	
Output power (kW)	0.35	0.5	0.7	1.0	1.5	2.0	3.0	3.5	4.2	5.0	
Battery voltage (VDC)	24			48			96				
Battery configuration	200AH/12V*2pcs				200AH/12V*4			\			

Solar Charger Parameters

Charger type	PWM/MPPT	MPPT	MPPT
Rated Input power (W)	900/1440	2880	5760
PV Input voltage (V)	30~50/30~90	70~150	150~300
Recommended input voltage (VDC)	36/60	90	240
Max. input current (A)	50		
Max. output current (A)	50		
Battery float voltage (V)	27.2	54.5	109
Battery equalizing charge voltage (V)	28.8	57.6	115.2

AC Charger Parameters

City power input voltage range (Vac)	110/220/230±3%
City power input frequency (Hz)	50/60±3%
AC charging current (A)	Rated: 10, Max.: 15

Inverter Parameters

Inverter output voltage	110±3%; 220±3% (or other output voltage)
Inverter output frequency	50/60±3%
Efficiency	>80% >85%
Overload capacity	105~120%, 30s; 120~150%, 10s; >150%, 5s
Crest factor	3
Output wave	Pure sine wave

General Parameters

Display	LCD+LED									
Display content	PV status, battery capacity, AC input voltage, AC output voltage, load, running status									
Complete protections	DC & AC overload, under-voltage, SPD, short-circuit, overcharge, overdischarge, over-temperature									
Cooling method	Forced air cooling									
Communication	RS232 (optional)									
Noise emission [dB (A)]	<60 (at 1 meter)									
Operating temperature range (°C)	-20~+50 (>50°C derating)									
Storage temperature range (°C)	-25~+70									
Relative humidity in operation	0~90% (non condensing)									
Max. operating altitude (m)	5000m (>1000m, derating)									
Dimension (D*W*H mm) bat. in	580*560*534			580*560*857			\			
Dimension (D*W*H mm) bat. out	420*145*215			500*195*345			500*240*490			
Weight (bat. in) (kg)	26.5	27.5	28.5	45	46	47	\			
Weight (bat. out) (kg)	8	9	10	11	19	22	35	40	45	54