

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
- Mains/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 insolated 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 mains/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

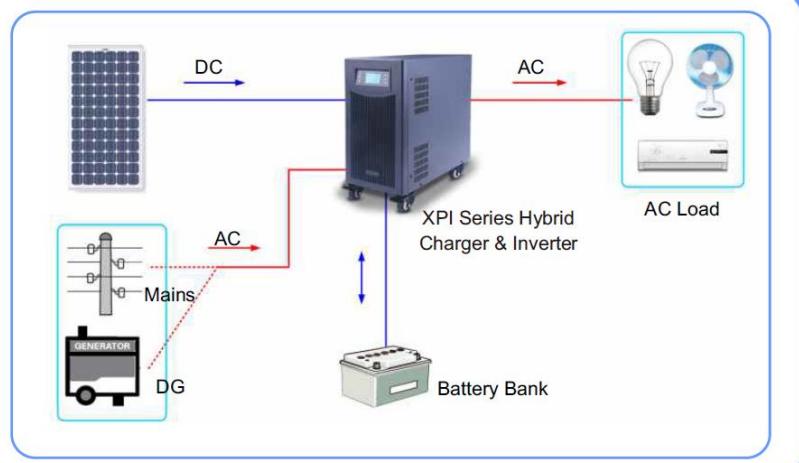
① Single-phase off-grid solar inverter

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 ...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)	0.4	0.6	0.8	1.2	1.5	2.5	3.0	4.0	5.0	6.0
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			180			
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±25%						
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 [bat. in (D*W*H mm)]	580*560*534			580*560*857				\		
Dimension [bat. out (D*W*H mm)]	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

Data may change without any notice.