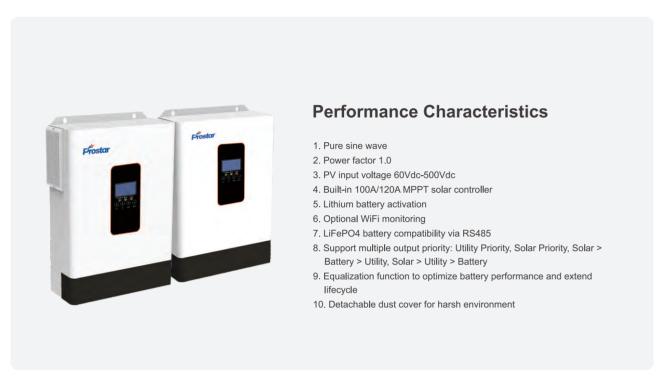


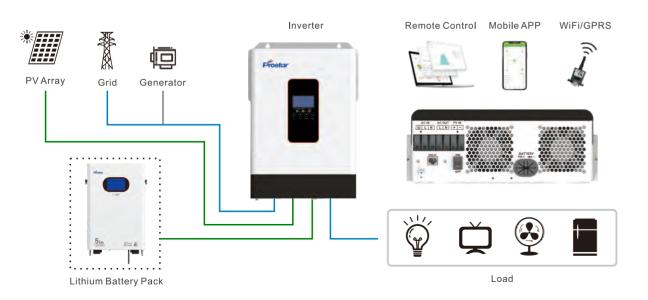
PIE SERIES OFF GRID HYBRID SOLAR INVERTER

3.5kW/5.5kW/6.2kW 220VAC/230VAC



The PIE series of off-grid hybrid solar inverter offers a pure sine wave output, boasting utility power factor and wide PV input voltage support (60Vdc - 500Vdc). With built-in 100A/120A MPPT solar controller, this solar inverter is highly efficient and versatile. It can activate lithium batteries, support WiFi monitoring, and communicate with LiFePO4 batteries via RS485. Additionally, it features multiple output priority working modes and includes an equalization function for optimizing battery performance. The PIE series is exceptionally ideal for various applications and can handle challenging environmental conditions with ease.

Application Diagram



Technical Specifications

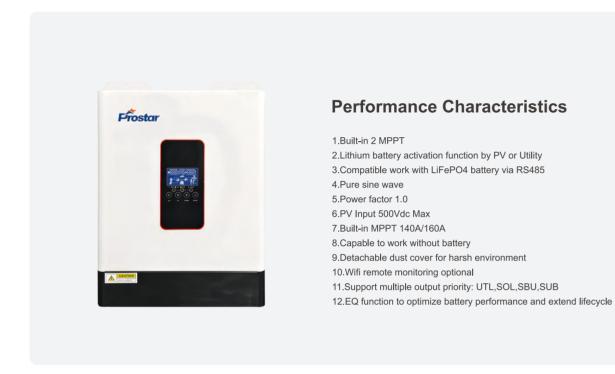
MODEL	PIE3.5K-24L	PIE5.5K-48L	PIE6.2K-48L
Capacity	3.5KVA/3.5KW	5.5KVA/5.5KW	6.2KVA/6.2KW
Product:DxWxH(mm)	358x295x100	438x2	95x105
Package:DxWxH(mm)	465x380x175 560x375x185		
Net Weight(Kg)	7	9	9
Parallel Capability	NO	NO	NO
NPUT			
Nominal Voltage	220/230VAC		
Acceptable Voltage Range	170-280VAC(For Personal Computer);90-280vac(For Home Appliances)		
requency		50/60 Hz(Auto Sensing)	
ОИТРИТ			
Nominal Voltage		220/230VAC±5%	
Surge Power	7000VA	11000VA	12400VA
requency	50/60Hz		
Waveform	Pure Sine Wave		
Transfer Time	10ms(For Personal Computer);20ms(For Home Appliances)		
Peak Efficiency(PV to INV)	96%		
Peak Efficiency(Battery to INV)	93%		
Overload Protection	5s@>=150% Load; 10s@110%~150% Load		
Crest Factor	3:1		
Admissible Power Factor	0.6-1 (Inductive or Capacitive))
BATTERY	<u>'</u>		
Battery Voltage	24VDC	48VDC	48VDC
Floating Charge Voltage	27VDC	54VDC	54VDC
OverCharge Protection	33VDC	63VDC	63VDC
Charging Method	CC/CV		
_ithium Battery Activation	Yes		
ithium Battery Communication	Yes(RS485)		
SOLAR CHARGER & AC CHARGER			
Solar Charger Type	MPPT		
Max.PV Array Power	4000W	5500W	6500W
Max.PV Array Open Circuit Voltage	500VDC		
PV Array MPPT Voltage Range	60VDC-500VDC		
Max.Solar Input Current	15A	18A	27A
Max.Solar Charge Current	100A	100A	120A
Max.AC Charge Current	60A	80A	80A
Max.Charge Current	100A	100A	120A
PHYSICAL	•		
Communication Interface		RS232+RS485	
ENVIRONMENT			
Operating Temperature Range	-10°C to 50°C		
Storage Temperature	-15°Cto 50°C		
Humidity	5% to 95% Relative Humidity(Non-condensing)		

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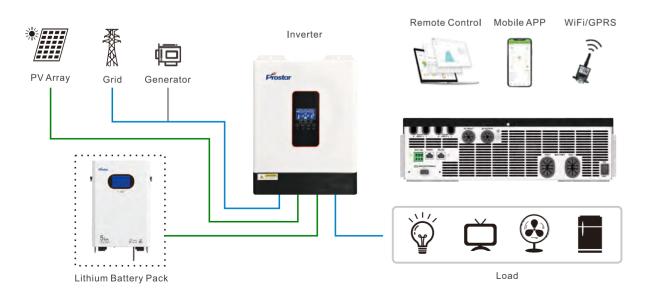
PIE SERIES OFF GRID HYBRID SOLAR INVERTER

8.5kW/11kW 220VAC/230VAC



This solar inverter features dual built-in MPPT solar charge controllers with a capacity of 140A/160A for optimal energy harvesting. It is compatible with LiFePO4 lithium batteries through RS485 communication and can activate lithium batteries via PV or utility power. The pure sine wave output ensures stable and clean power for sensitive electronics. Supporting up to 500Vdc PV input allows for greater energy capture. It can function without a battery, providing flexibility for various applications. Designed for harsh environments, it includes a detachable dust cover for enhanced durability and longevity. It supports UTL, SOL, SBU, and SUB priority modes for versatile energy management.

Application Diagram



Technical Specifications

IODEL	PIE8.5K-48L	PIE11K-48L	
Capacity	8.5KVA/8.5KW	11KVA/11KW	
Maximum PV Input Power	10KW	11KW	
Dimensions,D×W×H(mm)	540×415×122	540×415×122	
Net Weight (Kg)	14	15	
Parallel Capability	NO	NO	
Lithium Battery Activation	YES(By PV or Utility)		
Lihium Battery Communication	YES(I	RS485)	
NPUT			
Nominal Voltage	220/230/240VAC		
Acceptable Voltage Range	170-280VAC(For Personal Computer);90-280VAC(For Home Appliances)		
Frequency	50/60 Hz(Auto Sensing)		
ОИТРИТ			
Nominal Voltage	220/230)/240VAC	
Surge Power	17000VA	22000VA	
Frequency	50/6	60 Hz	
Waveform	Pure Sine Wave		
Transfer Time	10ms(For Personal Computer);20ms(For Home Appliances)		
Peak Efficiency	94%		
Overload Protection	5s@>=140% Load;10s@110%~140% Load		
Admissible Power Factor	0.6~1(Inductive or Capacitive)		
Grid-tie Operation	Option		
BATTERY			
Battery Voltage	48VDC	48VDC	
Maximum Discharge Current	180A	220A	
Floating Charge Voltage	54VDC	54VDC	
Over Charge Protection	63VDC	63VDC	
Charging Method	CC	/CV	
SOLAR CHARGER & AC CHARGER			
Solar Charger TYPE	MPPT	MPPT	
Max.PV Array Power	5000Wx2	5500Wx2	
Max.PV Array Open Circuit Voltage	500VDC	500VDC	
PV Array MPPT Voltage Range	60VDC~500VDC	60VDC~500VDC	
Max.Solar Input Current	18Ax2	18Ax2	
Max.Solar Charge Current	140A	160A	
Max.AC Charge Current	120A	120A	
Max.Charge Current	140A	160A	
PHYSICAL			
Communication Interface	RS232/RS485/DRY Contact		
LCD	YES		
ENVIRONMENT			
Operating Temperature Range	-10°C to 55°C		
Storage Temperature	-15°C~60°C		
Humidity	5%to 95% Relative Humidity (Non-condensing)		

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