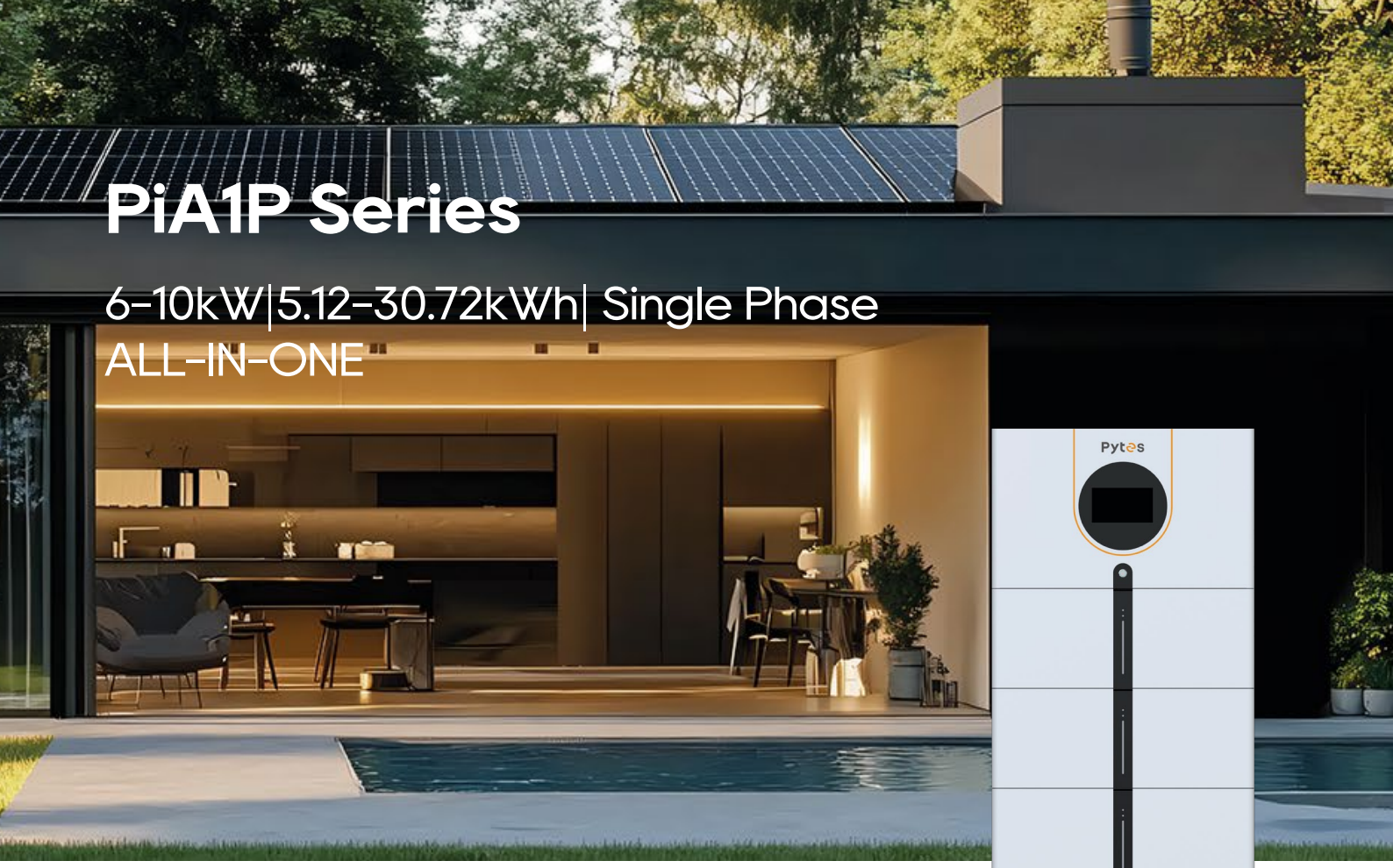


PiA1P Series

6-10kW|5.12-30.72kWh| Single Phase ALL-IN-ONE

Features

Installation Friendly
- Modular design
- Plug-Play Installation

Outdoor
- IP65 Rated

AC Coupling
- with Existing Solar System
- Self-designed & Field-proven BMS

Flexible Configuration
- 5.12kWh-20.48kWh

Smart
- Dual Output for Load Management
- Programmable supply priority for PV, Battery or Grid

Powerful
- 6kW, 8kW, 10kW Output

Multi Power Sorces
- 2 MPP trackers
- Generator Compatible
- Two independent AC Ports

PiA1P Series Specs

MODEL	PiA1P6K	PiA1P8K	PiA1P10K
PHASE	1-phase in / 1-phase out	1-phase in / 1-phase out	1-phase in / 1-phase out
Maximum PV Input Power	12000W	16000W	18000W
Rated Output Power	6000VA/6000W	8000VA/8000W	10000VA/10000W
Maximum Charging Power	6000W	8000W	10000W
GRID OUTPUT (AC)			
Nominal Output Voltage	220/230/240 VAC		
Output Voltage Range	184 - 264.5 VAC or 195.5 - 253 VAC or 184 - 264.4 VAC (Selectable)		
Nominal Output Current	26.1A	34.8A	43.5A
Power Factor	>0.99	>0.99	>0.99
EFFICIENCY			
Maximum Conversion Efficiency (DC/AC)	>97%		
OFF-GRID OPERATION			
AC INPUT			
AC Start-up Voltage / Auto Restart Voltage	60 - 80 VAC / 180 VAC		
Acceptable Input Voltage Range	90 - 280 VAC or 170 - 280 VAC		
Frequency Range	50 Hz/60 Hz (Auto sensing)		
Maximum AC Input Current	40A	60A	
PV INPUT (DC)			
Maximum DC Voltage	500 VDC	500 VDC	500 VDC
MPP Voltage Range	120 VDC ~ 450 VDC	120 VDC ~ 450 VDC	120 VDC ~ 450 VDC
Number of MPP Trackers / Maximum Input Current	2 / 21A	2 / 27A	
BATTERY MODE OUTPUT (AC)			
Nominal Output Voltage	220/230/240 VAC		
Output Waveform	Pure sine wave		
Efficiency (DC to AC)	90% - 93%		
AC INPUT			
AC Start-up Voltage / Auto Restart Voltage	60 - 80 VAC / 180 VAC		
Acceptable Input Voltage Range	90 - 280 VAC or 170 - 280 VAC		
Maximum AC Input Current	40A	60A	
AC INPUT			
Battery Type	Lead-acid or Lithium-ion	Lead-acid or Lithium-ion	Lead-acid or Lithium-ion
Battery Voltage Range (V)	40-60VDC		
Nominal DC Voltage	48 VDC		
Maximum Solar Charging Current	135A	190A	210A
Maximum AC Charging Current	135A	190A	210A
Maximum Charging Current	135A	190A	210A
GENERAL			
PHYSICAL			
Dimension, D X W X H (mm)	241 x 415 x682		
INTERFACE			
Communication Port	RS-232/RS485, WIFI		
LCD	7-inch HMI		
ENVIRONMENT			
Humidity	0 ~ 100% RH (No condensing)		
Operating Temperature	-20°C to 55°C		
PROTECTION & CERTIFICATE			
Satety	EU grid-connected regulations EN50549-1/-10		

Energy Storage Battery						
System Energy	5.12kWh	10.24kWh	15.36kWh	20.48kWh	25.6kWh	30.72kWh
Cell Type	LFP					
Normal Voltage	51.2Vdc					
Normal Capaticy	100Ah	200Ah	300Ah	400Ah	500Ah	600Ah
Recommended Charge/discharge current	50A	100A	150A	210A	210A	210A
No. of Battery Modules	1	2	3	4	5	6
Cycle Life	6000 times (25°C. 0.5C/0.5C. 90%DOD, 70% EOL)					
Ambient Temperature	Charging: (-20, 55) °C					
	Discharging: (-20, 55) °C					
Enclosure Type	IP65					
Warranty	10 years					
Certification	CE, UN38.3					