

Single Phase Hybrid / Off Grid Inverter

Argon 4200 & 6200



Models:

- 4.2kW-24-pV5000-Twin
- 6.2kW-48-pV6500-Twin



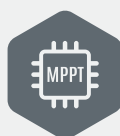
WiFi Optional



Anti-Shock
Design Terminal



Dual Output



MPPT



No Battery Mode



BMS



PV 60-500Vdc



Easy-to-install



Reliable



User-Friendly

- Pure sine wave solar inverter
- PV Input 500Vdc Max
- Built-in MPPT 100A/120A
- Compatible work with LiFePO4 battery via RS485
- Detachable dust cover for harsh environment

- Dual output for smart load management
- Wifi remote monitoring optional
- Support multiple output priority: UTL, SOL, SBU, SUB
- Battery Management System
- Capable to work without battery

- Lithium battery activation function, by PV or Utility
- EQ function to optimize battery performance and extend lifecycle

Technical Datasheet

KNOX SERIES	Argon 4200	Argon 6200
MODEL	4.2kW-24-pV5000-Twin	6.2kW-48-pV6500-Twin
Phase	Single Phase	
Maximum PV Input Power	5000W	6500W
Maximum Main Output Power	4200VA/4200W	6200VA/6200W
Maximum Second Output Power	4200VA/4200W	6200VA/6200W
Maximum Total Output Power	4200VA/4200W	6200VA/6200W
Parallel Capability	NO	
Lithium Battery Activation	YES (By PV or Utility)	
Lithium Battery Communication	YES(RS485)	
Built-in WiFi	Optional	
AC INPUT		
Nominal Voltage	230VAC	
Acceptable Voltage Range	170-280VAC (PC) / 90-280VAC (Home Appliances)	
Frequency	50/60 Hz (Auto sensing)	
AC OUTPUT		
Nominal Voltage	220/230VAC ±5%	
Frequency	50/60 Hz	
Waveform	Pure Sine wave	
Dual Outputs	Yes	
Transfer Time	10ms (PC) / 20ms (Home Appliances)	
Peak Efficiency	94%	
Overload Protection	5s @ ≥140% load, 10s @ 100%–140% load	
Admissible Power Factor	0.6–1 (Inductive or capacitive)	
Surge Power	8400VA	12400VA
BATTERY		
Charging Method	CC/CV	
Battery Voltage	24VDC	48VDC
Floating Charge Voltage	27VDC	54VDC
OverCharge Protection	33VDC	63VDC
SOLAR CHARGER & AC CHARGER		
Solar Charge Type	MPPT	
Max. PV Array Open Circuit Voltage	500VDC	
PV Array MPPT Voltage Range	30VDC – 500VDC	
Max. Solar Input Current	1 / 27A	
Max. AC Charge Current	80A	
Max. PV Array Power	5000W	6500W
Max. Solar Charge Current	100A	120A
Max. Charge Current	100A	120A
PHYSICAL		
Communication Interface	Standard version: RS485(RJ45)/RS232(DB9)	RS485(RJ45)/RS232(DB9)
Dimensions, D x W x H (mm)	368x312x109.5	438x313x112
Net Weight (kg)	6.7	11
ENVIRONMENT		
Operating Temperature Range	–10°C to 55°C	
Storage temperature	–15°C–60°C	
Humidity	5% to 95% Relative Humidity (Non-condensing)	
Ingress Protection	IP21	