

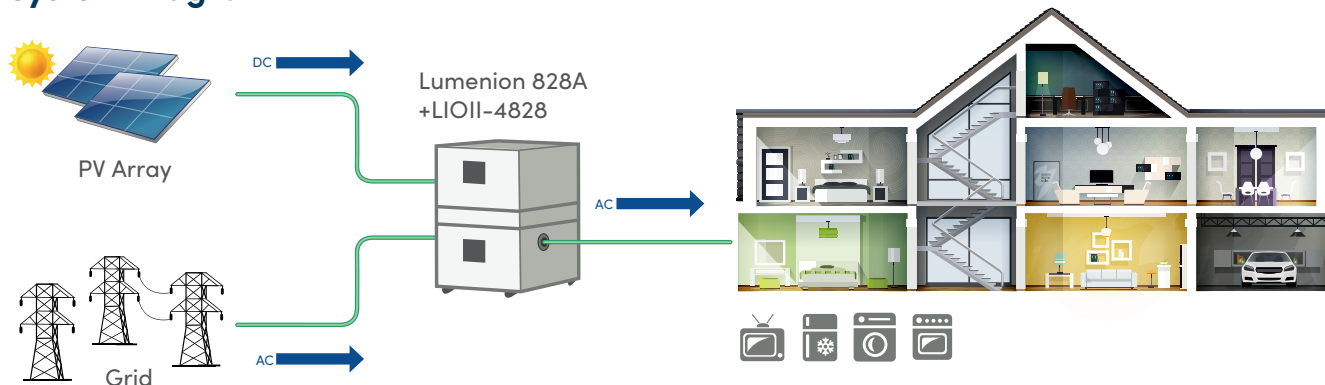


Lumenion 828A

- 8KW Off-Grid solar inverter with scalable 14.3KWh Lithium-ion battery
- Pure Sine wave output (Dual outputs)
- Built-in Wi-Fi for mobile monitoring (Available in iOS/ Android App)
- Expandable one battery module with up to 28.6KWh capacity
- Reserved communication port for RS232
- Configurable AC/PV output usage timer and prioritization
- Selectable high power charging current
- Selectable input voltage range for home appliances and personal computers
- Compatible to Utility Mains or generator input
- With wheel, support movable and stand off installation



System Diagram



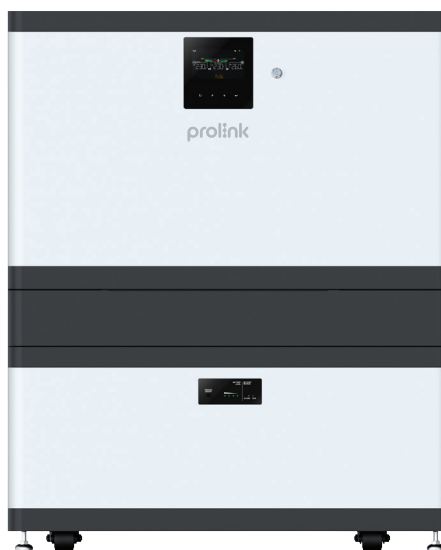
Lumenion 828A

8KW off-grid inverter with 14.3KWh battery capacity



Lumenion 828A + LIO II-4828

8KW off-grid inverter with 28.6KWh battery capacity



Specifications

INVERTER MODEL		Lumenion 828A
Rated Inverter Power		8000VA/8000W
INPUT		
Voltage		230 VAC
Selectable Voltage Range		170-280 VAC (For Computers); 90-280 VAC (For Home Appliances)
Frequency Range		50 Hz/60 Hz (Auto sensing)
OUTPUT		
AC Voltage Regulation (Batt. Mode)		230VAC $\pm$ 5%
Surge Power		16000VA
Efficiency (Peak)		93%
Transfer Time		15 ms (For Personal Computers), 20 ms (For Home Appliances)
Waveform		Pure Sine Wave
SOLAR CHARGER & AC CHARGER		
Solar Charger type		MPPT
Maximum PV Array Power		8000W (4000W x 2)
MPPT Range @ Operating Voltage		90 ~ 450 VDC
Maximum PV Array Open Circuit Voltage		500 VDC
Maximum Solar Charge Current		120 A
Maximum AC Charge Current		120 A
Maximum Charge Current		120 A
BATTERY MODULE		
CAPACITY		14.336KWh
PARAMETERS		
Nominal Voltage		51.2VDC
Full Charge Voltage (FC)		57.6V(58.4 max)
Full Discharge Voltage (FD)		44.8V(40 min)
Typical Capacity		280 Ah
Max Continuous Discharging Current		185A
Max Discharging Current		200A Peak
Protection		BMS
Charge Voltage		56VDC
Charge Current		120A (0.42C)
Maximum Charge Current		168A (0.6C)
Lifecycle		$\geq$ 6000 cycles, 0.6C charging/0.6C discharging; Remain capacity $\geq$ 80%
STANDARD		
Compliance Safety		EN 61000-6-3, EN 61000-6-1, UKCA, UN38.3
PHYSICAL		
Dimension, D X W X H (mm)		600 x 950 x 650
Net Weight (kgs)		207.4

LIO II-4828 Technical specification

BATTERY MODULE		LIO II-4828 (14.336KWh, 51.2V)
Usable Energy		14.336KWh
Rated Discharging Current		185 A
Peak Discharging Current		200 A
Nominal Voltage		51.2 V
Full Charge Voltage(FC)		57.6 V (58.4 max)
Full Discharge Voltage(FD)		44.8 V (40 min)
Charge Current		120 A (0.42C)
Maximum Charge current		168A (0.6C)
Lifecycle		$\geq$ 6000 cycles, 0.6C charging/0.6C discharging; Remain capacity $\geq$ 80%
Dimension, D x W x H (mm) with wheel		600 x 950 x 450
Net Weight (kgs)		130
Operation Temperature		0°C~50 °C
IP Protection		IP20
Communication		RS485 port (RJ45)
Certifications		UN38.3, IEC 62619

Product specifications are subject to change without further notice.