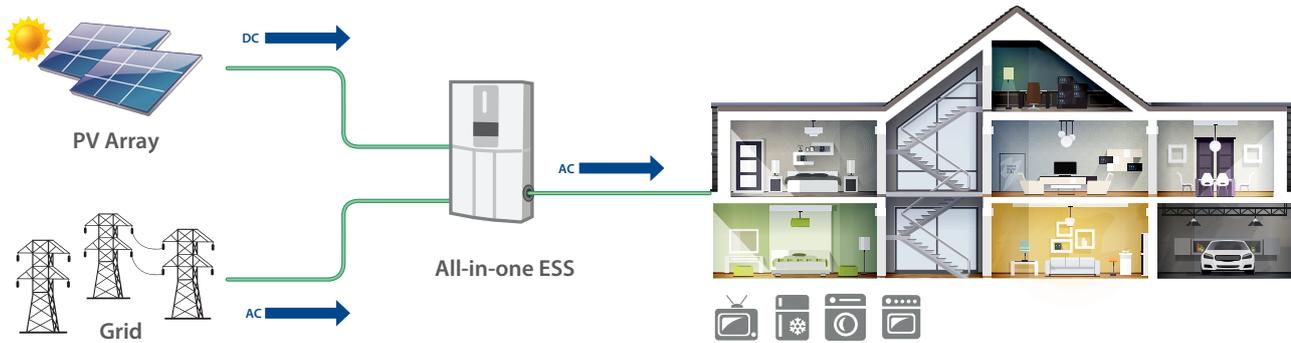


## Lumenion 510A | 5KW Off-Grid (Hybrid) Inverter

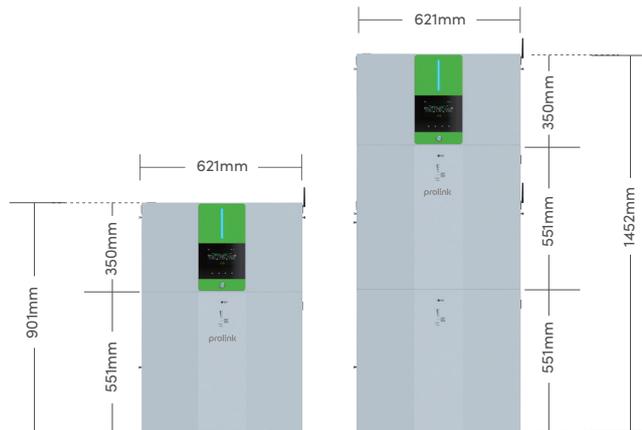
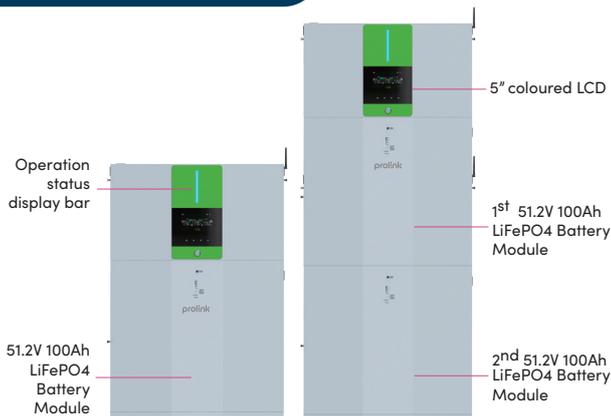
- Space Saving Design (Standalone or Wall Mounted)
- Pure Sine Wave Output
- Output Power Factor 1.0
- User Friendly LCD
- Selectable Input Voltage Range
- Selectable Output Source Priority
- Generator Compatible
- BMS Communication
- Expandable LiFePO4 Battery Packs (max. 10 modules)
- Longer Cycle Life Battery (8000 cycles @ 25°C)
- Mobile App
- USB On-The-Go



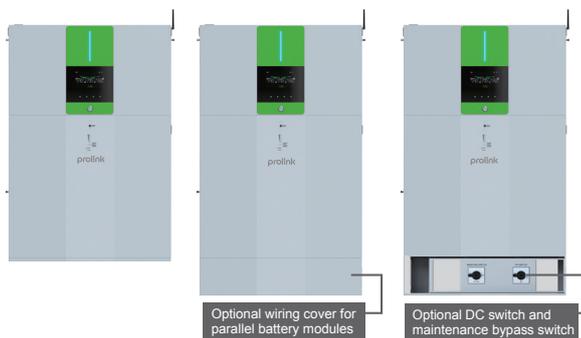
## System Diagram



## Overview



## Accessory



## Maximum 10 pcs of battery modules



## Specifications

INVERTER MODEL	Lumenion 510A
Rated Output Power	5000VA/5000W
<b>INPUT</b>	
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)
<b>OUTPUT</b>	
AC Voltage Regulation (Batt. Mode)	230VAC $\pm$ 5%
Surge Power	10000VA
Efficiency (Peak)	93%
Transfer Time	15 ms (For Personal Computers), 20 ms (For Home Appliances)
Waveform	Pure Sine Wave
<b>SOLAR CHARGER &amp; AC CHARGER</b>	
Solar Charger type	MPPT
Maximum PV Array Power	5000W
MPPT Range @ Operating Voltage	120~ 450 VDC
Maximum PV Array Open Circuit Voltage	500 VDC
Maximum Solar Charge Current	100A
Maximum AC Charge Current	100A
Maximum Charge Current	100A
<b>PHYSICAL</b>	
Dimension, D x W x H (mm)	210 x 621 x 350
Net Weight (kgs)	15
<b>STANDARD</b>	
Compliance Safety	IEC/EN 62109-1/-2, IEC/EN IEC 61000-6-4, IEC/EN IEC 61000-6-2, IEC/EN IEC 61000-3-11, IEC/EN 61000-3-12, IEC/EN 61683

BATTERY MODULE	ESS II-4810
CAPACITY	5120Wh
<b>PARAMETERS</b>	
Nominal Voltage	51.2VDC
Full Charge Voltage (FC)	56V
Full Discharge Voltage (FD)	42V
Typical Capacity	100Ah
Max Continuous Discharging Current	150A
Max Discharging Current	192A at 1min
Protection	BMS, breaker
Charge Voltage	56V
Charge Current	20A (0.2C)
Maximum Charge Current	50A (0.5C)
Standard Charge Method	0.2C CC (Constant current) charge to FC, CV (Constant voltage FC) charge till charge current decline to <0.05C
Inner Resistance	<20m ohm
<b>PARAMETERS</b>	
Dimension, D X W X H (mm)	210 x 621 x 551
Net Weight (kgs)	55
<b>STANDARD</b>	
Compliance Safety	IEC 62619, EN 61000-6-3, EN 61000-6-1, UKCA, UN38.3

Product specifications are subject to change without further notice.