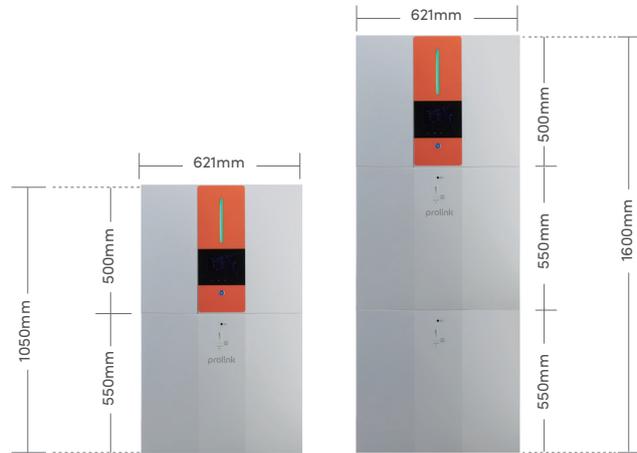
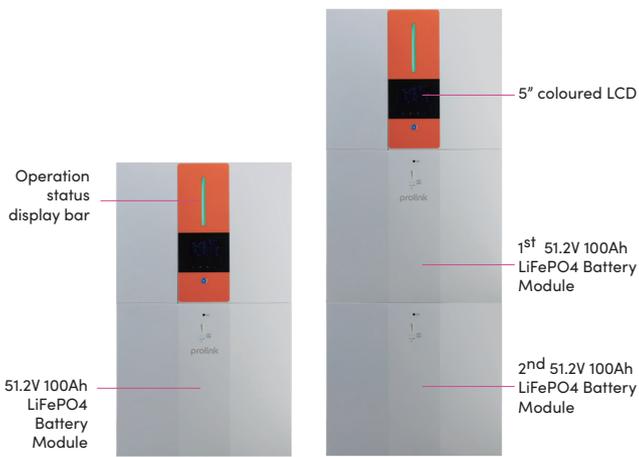


Lumenion 510 | 5.5KW On-Grid Inverter

- Space Saving Design (Standalone or Wall Mounted)
- Pure Sine Wave Output
- Output Power Factor 1.0
- User Friendly LCD
- Programmable Operation Modes
- 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



Overview



Accessory

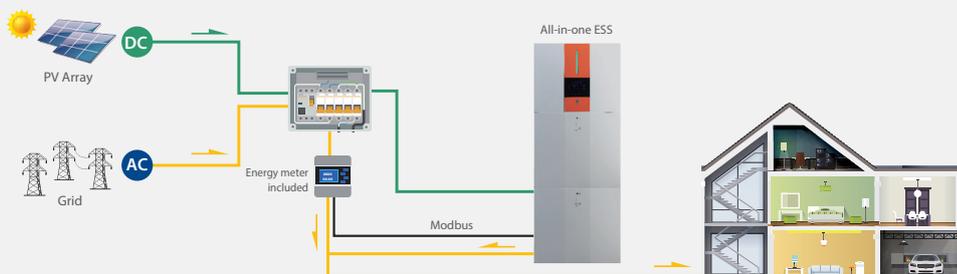


Maximum 10 pcs of battery modules



System Diagram

Add ESS into existing home utility system



Supply independent power to specific area, no power shutdown even Grid is not available



Supply independent power to whole house



Separate two ESS systems to supply whole house



Specifications

INVERTER MODEL		Lumenion 510
Maximum PV Input Power		6500W
Rated Output Power		5500W
Maximum Charging Power		2880W
PV INPUT (DC)		
Nominal DC Voltage / Maximum DC Voltage		360 VDC / 500 VDC
Start-up Voltage / Initial Feeding Voltage		116 VDC / 150 VDC
MPP Voltage Range		120 VDC ~ 450 VDC
Number of MPP Trackers / Maximum Input Current		2 / 2 x 13 A
GRID OUTPUT		
Nominal Output Voltage		208/220/230/240 VAC
Output Voltage Range		184 - 264.5 VAC*
Max. Output Current		23.9A*
Maximum Conversion Efficiency (DC/AC)		96%
European Efficiency @ Vnominal		95%
AC INPUT		
AC Start-up Voltage / Auto Restart Voltage		120 - 140 VAC / 180 VAC
Acceptable Input Voltage Range		170 -280 VAC
Maximum AC Input Current		40 A
BATTERY MODE OUTPUT (AC)		
Nominal Output Voltage		208/220/230/240 VAC
Efficiency (DC to AC)		93%
BATTERY CHARGER		
Nominal DC Voltage		48 VDC
Maximum Charging Current		100 A
PHYSICAL		
Dimension, D x W x H (mm)		214 x 621 x 500
Net Weight (kgs)		25
STANDARD		
Compliance Safety	IEC/EN 62109-1/-2, IEC 62040-1, IEC/EN IEC 61000-6-4, IEC/EN IEC 61000-6-2, IEC/EN IEC 61000-3-11, IEC/EN 61000-3-12, IEC 61683, IEC/EN 61727, IEC/EN 62116, IEC/EN 50549-1	

BATTERY MODULE		ESS II-4810
CAPACITY		5120Wh
PARAMETERS		
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
Dimension, D X W X H (mm)		214 x 621 x 550
Net Weight (kgs)		55
STANDARD		
Compliance Safety	IEC 62619, EN 61000-6-3, EN 61000-6-1, UKCA, UN38.3	

*These figures may vary depending on different AC voltage and contry regulation. Product specifications are subject to change without further notice.