






# All-in-one Energy Storage System

Residential PV+ESS solution, power utility solving



-  All in one solution, be easy to install
-  High-performance intelligent battery management system
-  Long cycle life
-  UPS function, pure sine output, built-in MPPT
-  WIFI, remote monitoring the system operating status

AL-5kW-5kWh	
<b>Battery parameters</b>	
Battery energy	5kWh
Capacity	100AH
Battery type	LiFePO4
Rated voltage	51.2V
<b>AC output</b>	
Rated loading power	5500VA/5500W
Output wave	Pure sine wave
Output voltage	230Vac Or customise
Output frequency	50Hz/60Hz
Efficiency	93%
Overloading protection	10s@(100%~140%) ; 5s@(140%~150%)
<b>AC input</b>	
Rated input voltage	230Vac
Input wave	Pure sine wave (Mains supply or generator)
Input voltage range	170Vac~280Vac (UPS) ; 90Vac-280Vac (APL)
Input frequency	50Hz/ 60Hz (Auto detect)
Input frequency range	40Hz ~ 65Hz
UPS switching time	Typical 10ms; Max. 20ms
AC charging current Max.	80A (Battery side)
<b>PV input</b>	
Maximum current	18A
MPPT Maximum power tracking	Yes
PV charge starting voltage	150V
MPPT voltage range	60V-500V
PV maximum open circuit voltage	500V
PV maximum charge current	100A
<b>Other parameters</b>	
Communication port	RS232
Charge temperature	0~55°C
Discharge temperature	-25~60°C
Working humidity	MAX 90%RH
Storage temperature	-20°C~50°C (15°C~25°C the best)
Cycle times	> 4000 times (80% capacity retention ratio)
Net weight	~56kg
Dimension L x W x H (mm)	485*252*570