






AL5050F1

Residential

-  Light storage integrated structure, easy to install indoors
-  High-performance intelligent battery management system, more accurate data, more comprehensive protection
-  Long cycle life
-  UPS uninterruptible power supply, pure sine output, built-in MPPT controller
-  WIFI distribution network, remote monitoring of energy storage system operating status



AL5050F1	
Battery	
Energy capacity of battery	5kWh
Battery capacity	100AH
Cell type	LiFePO4
Rated battery voltage	51.2V
AC output	
Output rating	5000VA/5000W
Output waveform	pure sine wave
Output voltage	230Vac
Output frequency	50Hz or 60Hz
Maximum efficiency	93%
Overload protection	10s@(100%~140%) ; 5s@(140%~150%)
AC input	
Rated input voltage	230Vac
Input voltage waveform	Sine wave (mains or generator)
Input voltage range	170Vac~280Vac (UPS) ; 90Vac-280Vac (APL)
Incoming frequency	50Hz/ 60Hz (Automatic detection)
Input frequency range	40Hz ~ 65Hz
UPS switching	Typical value 10ms; Max. 20ms
AC Maximum charging current	80A(Battery terminal)
PV input	
PV maximum current	18A
MPPT maximum power tracking	YES
Solar charging starting voltage	150V
MPPT voltage range	60V-500V
Maximum open circuit voltage of photovoltaic	500V
Maximum photovoltaic charging current	100A
Other Parameters	
Communication interface	RS232
Charging temperature range	0~55°C
Discharge temperature range	-20~60°C
Ambient humidity	MAX 90%RH
Storage ambient temperature	-20°C~50°C (15°C~25°C best)
Battery cycle life	> 4000 times(80% capacity retention ratio)
Service life	Ten years
IP code	IP54
Suttle	58kg
Size LxWxH(mm)	514*300*584