






AL5050E1

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



| AL5050E1 | |
|--|--|
| 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 | IP21 |
| Suttle | 54kg |
| Size LxWxH(mm) | 512*300*584 |