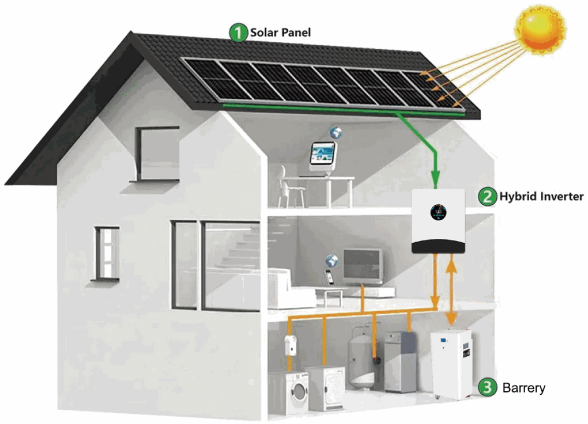
Battery series



KT51.2V-314AH

Home Use Solar Power System



Safe & Reliable
High safety LiFePO₄ battery.
Compliance with IEC62619, UN38.3, CE, .

Modular
Support up to 16 units in parallel

Ultra performance
More than 6000 cycles, self-developed BMS/Cell/Pack to ensure best quality.

BMS & Circuit Breaker
200A / 250A

Compatibility
Compatible with most hybrid/battery inverter in self-consumption, back-up and off-grid applications.

Intellegence
Strong pre-charge and balancing capability.
Remote data history & firmware upgrading function

Parameters

Items	KT51.2V-314AH
Rated energy(kWh)	16.076KWh
Configuration	1P16S
Nominal Voltage	51.2V
Nominal Capacity	314Ah
Battery Type	16S1P Lifepo4 3.2v 314Ah Grade A Battery cell
Working Voltage(V)	42V~58.4V
Rated charge/discharge Current(A)	200A @25±2℃
Maximum charging current	200A @25±2℃
Maximum discharge current	200A @25±2℃
Working temperature	0～40℃(Charge)
Working temperature	-20～40℃(Discharge)
Humidity(%)	5~95%
Altitude limited(m)	0-3000m
Storage temperature	-10℃~35℃（Within one month of storage）
Storage temperature	25±2℃（Within three months of storage）
Storage humidity	65%±20%RH
Cycle Life	6000 cycles @25℃
Cycle Life	50A Charge and discharge current 80%DOD
Residual capacity loss	≤3% @25℃ 20% SOC
Communication mode	CAN&RS485
Net weight	125kg
Dimension	440x270x850mm

[1] Test conditions: 90% depth of discharge (DOD), 0.2C rate charge & discharge at 25°C.
[2] System Usable Energy may vary different inverter brand.
[3] Derating occurs when the operating temperature from -10°C to 10°C & 40°C to 50°C.