

KBLI24500 24V 50Ah



Longer Cycle Life: Offers up to 20 times longer cycle life and five times longer float/calendar life than lead acid battery, helping to minimize replacement cost and reduce total cost of ownership.

Lighter Weight: About 40% of the weight of a comparable lead acid battery. A 'drop in' replacement for lead acid batteries.

Higher Power: Delivers twice power of lead acid battery, even high discharge rate, while maintaining high energy capacity.

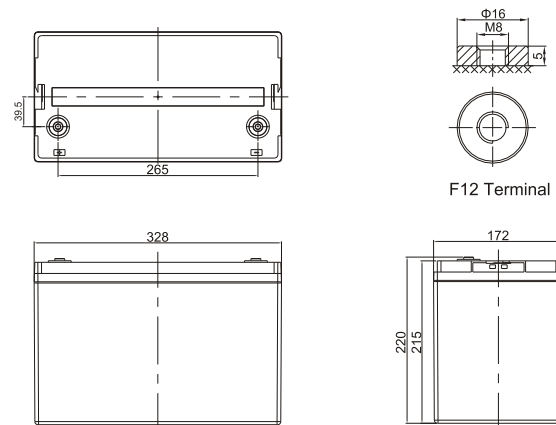
Wider Storage Temperature Range: -20 °C-60 °C.

Superior Safety: Prismatic Lithium Iron Phosphate chemistry eliminates the risk of explosion or combustion due to high impact, overcharging or short circuit situation.

Performance Characteristics

Nominal Voltage	25.6V
Nominal Capacity	50Ah
Energy	1.28kWh
Cycle Life	>3500 cycles at 80%DoD
Efficiency of charge	100% @ 0.5C
Efficiency of Discharge	96~99% @ 1C
Charge Voltage	29.2V
Charge Mode	@0.2C(A) to 29.2V, then @29.2V till charge current <0.05C(A) (CC/CV)
Charge Current	10 (0.2C)
Max. Charge Current	50A
Max. Discharge Current	50A
Discharge Cut-off Voltage	22.4V
Operating Humidity	0-95% RH (No condensing)
Operating Temperature range	Charge: 0 ~+50°C Discharge: -20 ~+55°C
Storage Temperature range	-20 ~+60°C / -4 ~+140°C
IP Class	IP65
Plastic Case	ABS
Approx. Dimensions	330mm*172mm*214mm (12.99in.*6.77in.*8.42in.)
Approx. Weight	15kg (33.07lbs)
Terminal	M8
Communication Interface	/
BMS Functions	Cell Voltage/Current Balance, Temperature, MOSFETS
Protection	Over voltage, Low voltage, Over Temperature, Short circuit
Certification	UN38.3, CE
Parallels Support	Support. According to user manual for parallel connection
Series Support	No Support ³

Physical Dimension-mm



Applications

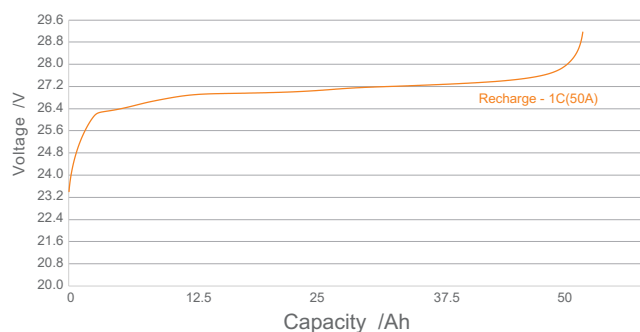
Wheelchairs and scooters
Solar / wind energy storage
Back-up power for small
UPS Golf trolleys & buggies
Electric bikes
Tools

(Note) The above characteristics data are average values obtained within three charge/discharge cycles not the minimum values.

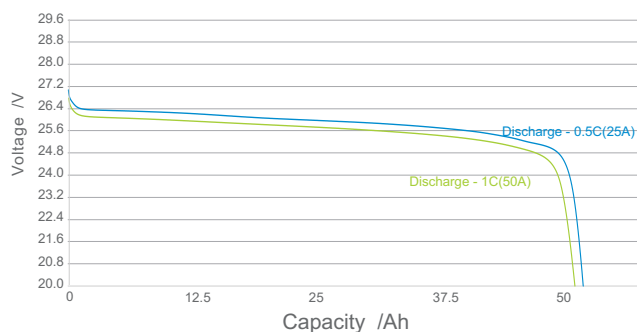
KBLI24500 24V 50h



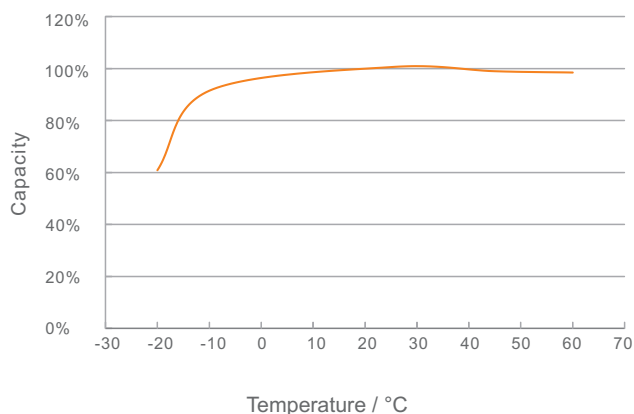
Charging Characteristics - 1 C@25°C



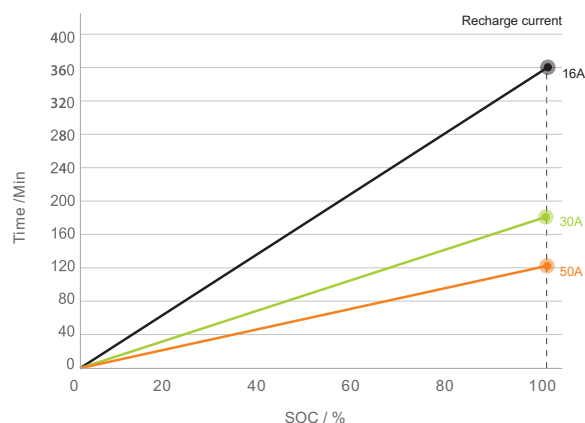
State of Discharge Curve - 0.5C, 1 C@25°C



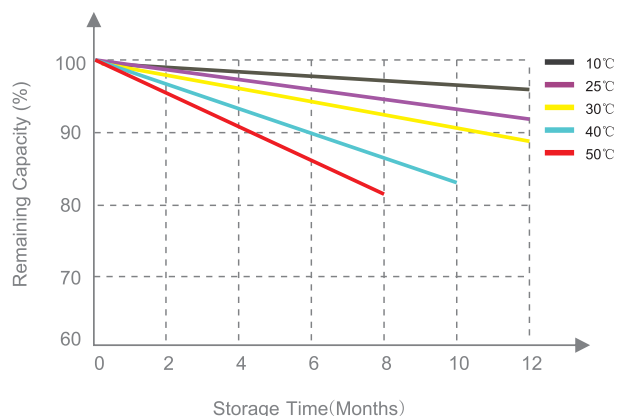
Capacity With Different Temperature



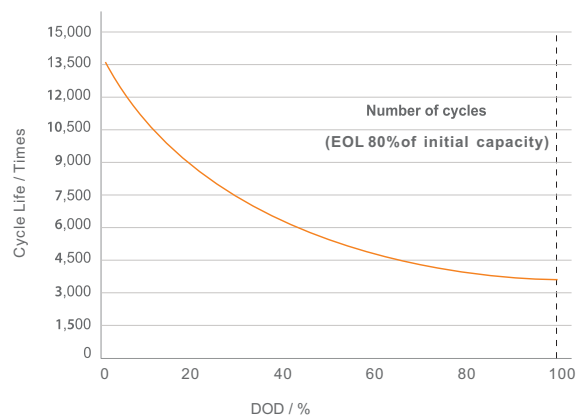
Typical Recharge Time



Different Temperature Self Discharge Curve



Typical Cycle Life



IMPORTANT NOTE: The specifications presented herein are subject to revision without notice.

