

KBLi511000 51.2V 100Ah



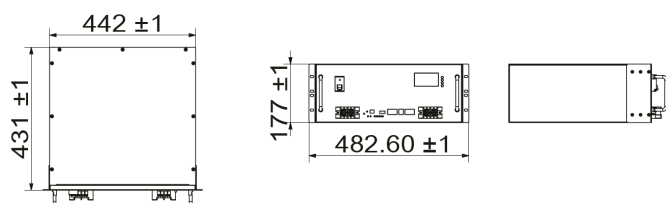
Characteristic

Item	Specification
Model	KBLi511000
Rated Capacity (5HR)	100 Ah
Nominal Voltage	51.2 V
Discharge Ending Voltage	43.2 V
Charging Limited Voltage	57.6 V
Max. Charging Current	100 A
Max. Continue Discharging Current	100 A
Weight	Approx. 4.2 Kg
Display	With display screen
Protocol	CAN BUS/ MODBUS
Parallel Connection	Parallel connection is optional (up to 15P).
Dimensions (W*D*H) mm (inches)	442 (17.40") * 431 (16.97") * 177 (6.99")
Cell	3.2V 100Ah
Design life	More than 20 years
Cycle Life	More than 3500 cycles at 100% DOD.
IP Class	Ip31
Outer Package Material	Black bake lacquer steel case (battery rack or cabinet is optional)
Operating Temperature	Charging: 0 to +60°C Storage: -20 to +60°C Discharging: -20 to +60°C



- Intra-system balancing
- Flame retardant system to UL94V-0
- Good high temperature performance
- High cycle times and long service life
- Safe Lithium Iron Phosphate Technology
- Thousands of cycles, under normal conditions
- High energy density and conversion efficiency
- Environmental Friendly, without any heavy metals
- Complete with Battery Management System built-in
- Can use most standard VRLA chargers for this system
- Low self discharge rate of 6 months (0-30°C) before required recharging
- Easy installation, can be in 19-inch standard cabinet or be wall-mounted
- Built-in automatic protection for over-charge, over-discharge & over-temperature conditions

Layout



Discharge Table

Constant Current Discharge Table (Amperes) at 25°C							
Model	Voltage	Time	1 h	2 h	3 h	5 h	10 h
KBLi511000	End of discharge voltage 43.2 V		95A	49 A	33 A	20 A	10 A

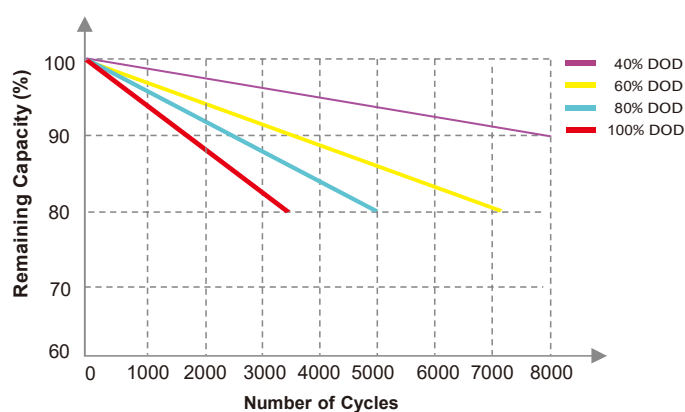
Constant Power Discharge Table (Watts) at 25°C

Model	Voltage	Time	1 h	2 h	3 h	5 h	10 h
KBLi511000	End of discharge voltage 43.2 V		4850W	2500 W	1700W	1024 W	512W

Items	Parameters
Environment	Storage Temperature
	Transport Temperature
	Operate Temperature
	Relative Humidity
	Working Pressure
	-20°C to 60 °C
	-20°C to 60°C
	Charge:0°Cto 60°C; Discharge: -20°C to 60°C
	5% to 95%
	70kPa~106kPa

Note:When the battery pack needs to be stored for a long time, please charge the battery pack to about 50% power, and cycle the standard charge/discharge current at least once every month, and every three months. The battery should be activated once every three months with a small current (0.1C). Environmental requirements: temperature -20°C~60°C, relative humidity 5%~95%, atmospheric pressure 70kPa~106kPa. Place in dry and ventilated place, avoid contact with corrosive substances, keep away from fire and heat source.

Different DOD Discharge cycle Life Curve (0.5C)



Different Rate Discharge Curve (25°C)

