KBL122000 *12V 200Ah(10hr)*

The rechargeable batteries are lead-lead dioxide systems. The dilute sulfuric acid electrolyte is absorbed by separators and plates and thus immobilized. Should the battery be accidentally overcharged producing hydrogen and oxygen, special one-way valves allow the gases to escape thus avoiding excessive pressure build-up. Otherwise, the battery is completely sealed and is, therefore, maintenance-free, leak proof and usable in any position.



Battery Construction

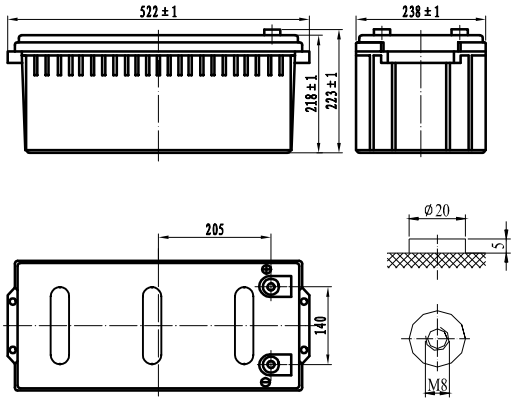
Component	Positive plate	Negative plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
Raw material	Lead dioxide	Lead	ABS	ABS	Rubber	Copper	Fiberglass	Sulfuric acid

General Features

- Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance or water adding.
- Not restricted for air transport-complies with IATA/ICAO Special Provision A67.
- UL-recognized component.
- Can be mounted in any orientation.
- Computer designed lead, calcium tin alloy grid for high power density.
- Long service life, float or cyclic applications.
- Maintenance-free operation.
- Low self discharge.

Dimensions and Weight

Length(mm / inch)	522 / 20.55
Width(mm / inch)	238 / 9.37
Height(mm / inch)	218 / 8.58
Total Height(mm / inch)	223 / 8.78
Approx. Weight(Kg / lbs)	59.1 / 130



Performance Characteristics

Nominal Voltage	12V
Number of cell	6
Design Life	10 years
Nominal Capacity 77ºF(25ºC)	
10 hour rate (20.0A, 10.8V)	200Ah
5 hour rate (34.7A, 10.5V)	173.5Ah
1 hour rate (129A, 9.6V)	129Ah
Internal Resistance	
Fully Charged battery 77ºF(25ºC)	3.5mOhms
Self-Discharge	
3% of capacity declined per month at 20ºC(average)	
Operating Temperature Range	
Discharge	-20~60ºC
Charge	-10~60ºC
Storage	-20~60ºC
Max. Discharge Current 77ºF(25ºC)	1000A(5s)
Short Circuit Current	3300A
Charge Methods: Constant Voltage Charge 77ºF(25ºC)	
Cycle use	2.30-2.35VPC
Maximum charging current	60A
Temperature compensation	-30mV/ºC
Standby use	2.23-2.27VPC
Temperature compensation	-20mV/ºC

Discharge Constant Current (Amperes at 77ºF25ºC)

End Point Volts/Cell	15min	30min	1h	3h	5h	10h	20h
1.60V	327	196	129	50.3	36.9	21.1	10.70
1.65V	308	188	126	49.1	36.2	20.9	10.65
1.70V	288	181	123	48.2	35.4	20.7	10.60
1.75V	269	175	120	47.1	34.7	20.4	10.55
1.80V	250	168	117	45.7	33.9	20.0	10.50

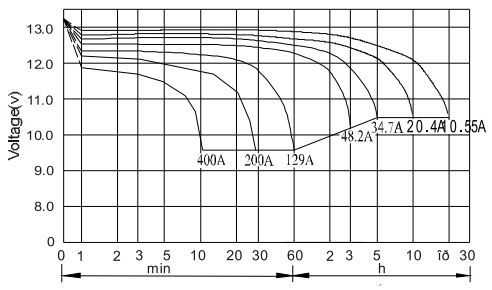
Discharge Constant Power (Watts at 77ºF25ºC)

End Point Volts/Cell	15min	30min	45min	1h	2h	3h	5h
1.60V	566	374	268	248	137	97.4	70.3
1.65V	547	360	262	243	134	96.1	69.7
1.70V	530	347	257	238	131	94.8	69.1
1.75V	512	332	252	233	128	93.4	68.6
1.80V	482	319	247	228	124	92.4	68.1

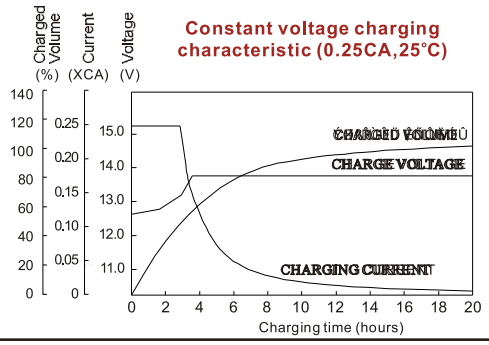
(Note)The above characteristics data are average values obtained within three charge/discharge cycles not the mimimum values.

KBL122000 12V 200Ah

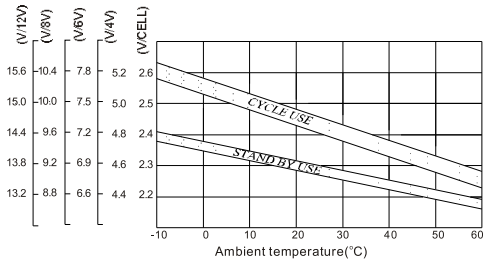
Discharge characteristic (25°C)



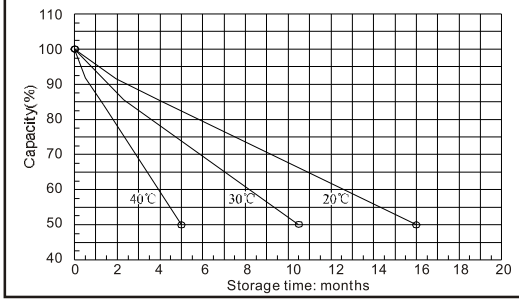
Constant voltage charging characteristic (0.25CA,25°C)



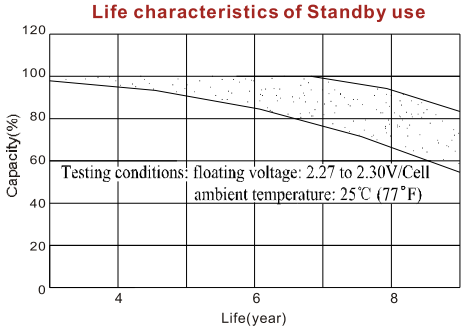
Relationship between charging voltage and temperature



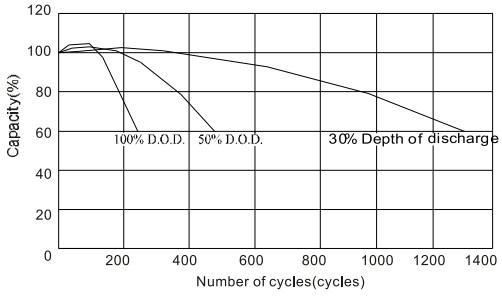
Self-discharge characteristic



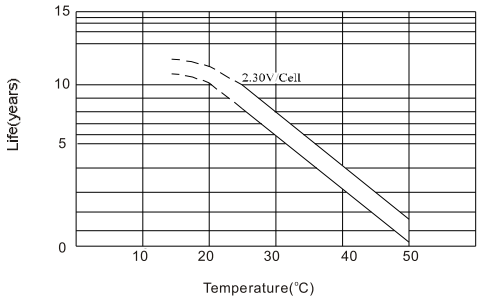
Life characteristics of Standby use



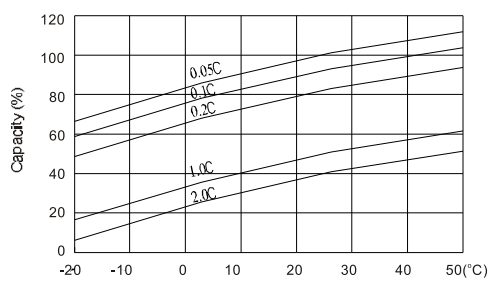
Cycle service life in relation to depth of discharge



Temperature effects on float life



Temperature effects on capacity



ISO9001:2000

MH25860

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