



KB 2400

2V 400Ah(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

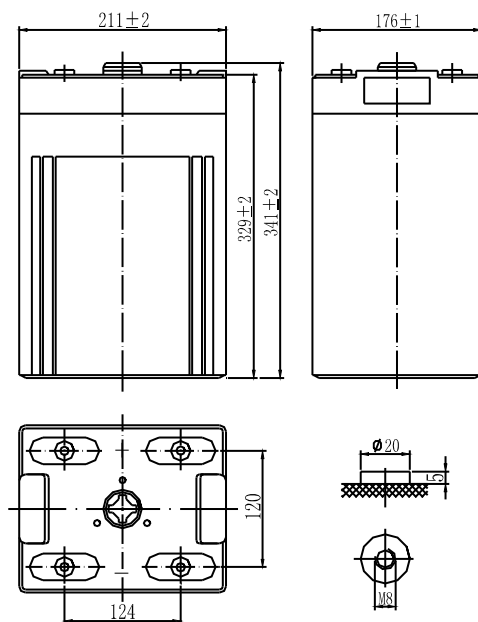
Component	Positive plate	Negative plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
Raw material	Lead dioxide	Lead	ABS	ABS	Rubber	Copper	Fiberglass	Sulfuric acid

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)	211 / 8.31
Width(mm / inch)	176 / 6.93
Height(mm / inch)	329 / 12.95
Total Height(mm / inch)	367 / 14.5
Approx. Weight(Kg / lbs)	26.6/ 58.67



Total height with removeable cover: 367

Performance Characteristics

Nominal Voltage	2V
Number of cell	1
Design Life	20 years
Nominal Capacity 77°F(25°C)	
10 hour rate (40A, 1.8V)	400Ah
5 hour rate (68.4A, 1.75V)	342Ah
1 hour rate (235A, 1.6V)	235Ah
Internal Resistance	
Fully Charged battery 77°F(25°C)	0.47mOhms
Self-Discharge	
3% of capacity declined per month at 20°C(average)	
Operating Temperature Range	
Discharge	-20~60°C
Charge	-10~60°C
Storage	-20~60°C
Max. Discharge Current 77°F(25°C)	2000A(5s)
Charge Methods: Constant Voltage Charge 77°F(25°C)	
Cycle use	2.30-2.35VPC
Maximum charging current	80A
Temperature compensation	-5.0mV/°C
Standby use	2.23-2.27VPC
Temperature compensation	-3.3mV/°C

Discharge Constant Current (Amperes at 77°F25°C)

End Voltage Volts/cell	10min	15min	30min	45min	60min	3h	5h	10h
1.60	695	558	406	309	235	108	73.8	43.0
1.65	659	531	388	296	226	105	72.1	42.4
1.70	621	504	369	283	218	101	70.3	41.7
1.75	583	475	350	270	208	96.9	68.4	40.9
1.80	544	447	330	256	198	93.1	65.9	40

Discharge Constant Power (Watts at 77°F25°C)

End Voltage Volts/cell	10min	15min	30min	45min	60min	2h	3h	5h
1.60	1217	864	703	609	468	295	203	133
1.65	1146	817	668	580	447	272	199	131
1.70	1074	770	632	547	427	257	193	128
1.75	1004	722	595	516	404	247	187	125
1.80	934	675	558	484	381	234	176	119

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

