VISION MAINTENANCE-FREE RECHARGEABLE SEALED LEAD ACID BATTERY

CL300 *2V 300Ah(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

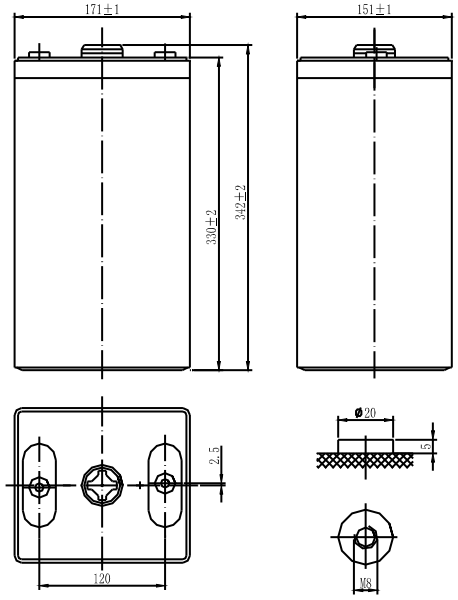
General Features

- 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)	171 / 6.73
Width(mm / inch)	151 / 5.94
Height(mm / inch)	330 / 13.0
Total Height(mm / inch)	364 / 14.3
Approx. Weight(Kg / lbs)	20 / 44.1

* Weight deviation: ± 3%



Total height with removeable cover: 364

Performance Characteristics

Nominal Voltage	2V
Number of cell	1
Design Life	20 years
Nominal Capacity 77ºF(25ºC)	
10 hour rate (30A, 1.8V)	300Ah
5 hour rate (54.2A, 1.75V)	271Ah
1 hour rate (195A, 1.6V)	195Ah
Internal Resistance	
Fully Charged battery 77ºF(25ºC)	≤0.75mOhms
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)	1500A(5s)
Charge Methods: Constant Voltage Charge 77ºF(25ºC)	
Cycle use	2.40-2.45VPC
Maximum charging current	60A
Temperature compensation	-5.0mV/ºC
Standby use	2.20-2.30VPC
Temperature compensation	-3.3mV/ºC

Discharge Constant Current (Amperes at 77ºF25ºC)

End Point Volts/Cell		15min	30min	45min	1h	3h	5h	10h
1.60V		443	325	240	195	89.5	58.7	32.1
1.65V		422	311	230	188	86.8	57.4	31.8
1.70V		400	296	220	180	84.0	55.9	31.3
1.75V		378	280	210	173	81.3	54.2	30.7
1.80V		355	265	199	165	78.5	52.3	30.0

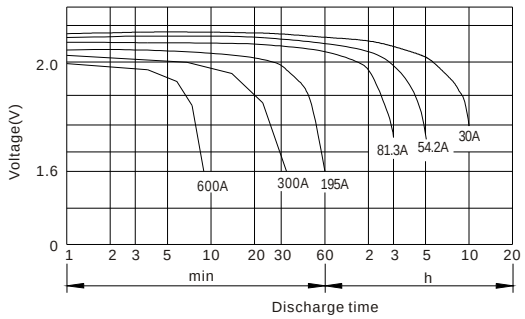
Discharge Constant Power (Watts at 77ºF25ºC)

End Point Volts/Cell		15min	30min	45min	1h	2h	3h	5h
1.60V		795	608	476	385	247	175	115
1.65V		756	581	460	371	241	171	113
1.70V		718	554	443	357	234	166	111
1.75V		679	527	427	342	228	162	108
1.80V		640	500	410	328	221	157	105

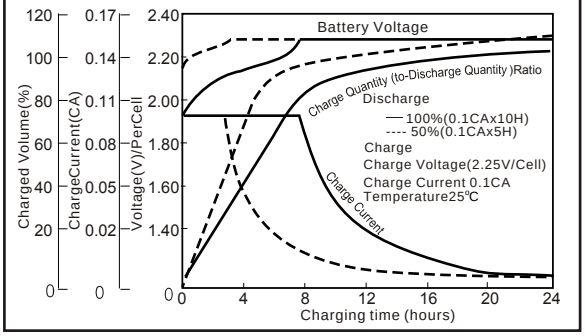
(Note)The above characteristics data are average values obtained within three charge/discharge cycles not the mimimum values.
All data shall be changed without notice,Vision reserves the right to explain and update the information contained hereinto.

CL300 2V300Ah

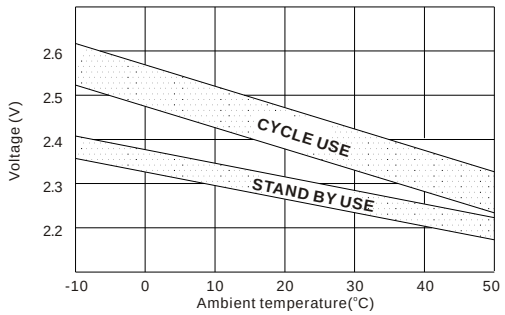
Discharge characteristic (25°C)



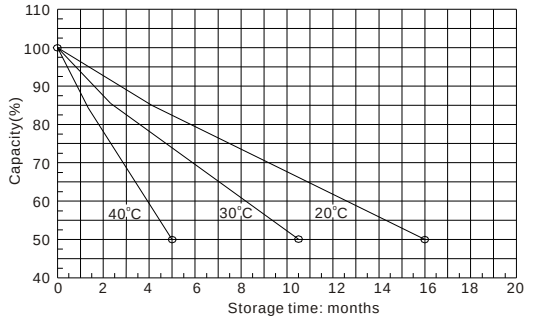
Charging characteristic for standby use



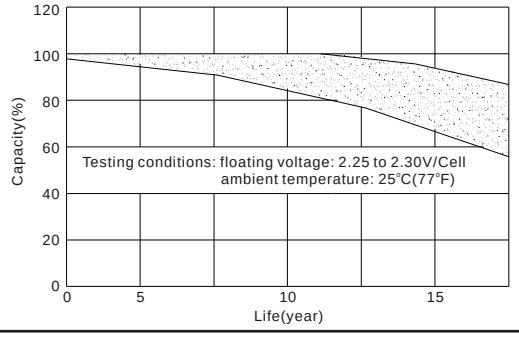
Relationship between charging voltage and temperature



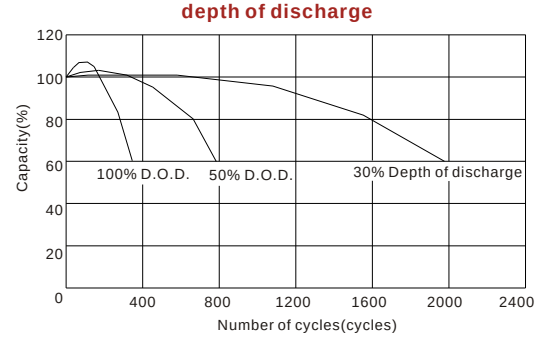
Self-discharge characteristic



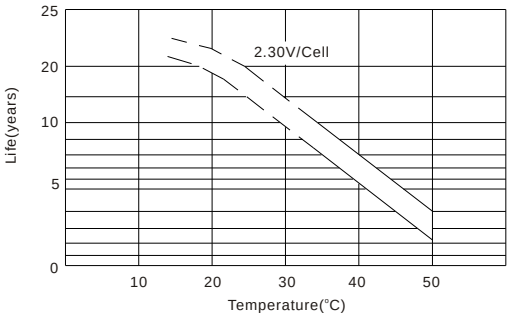
Life characteristics of standby use



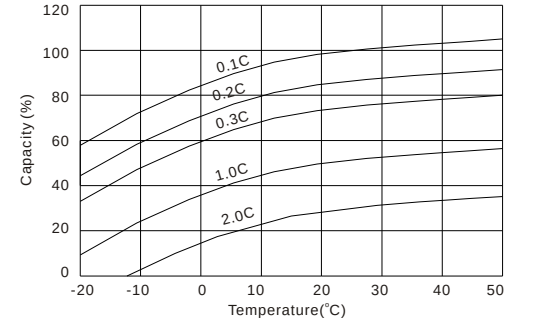
Cycle service life in relation to depth of discharge



Temperature effects on float life



Temperature effects on capacity



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