

CLS300 2V300Ah

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

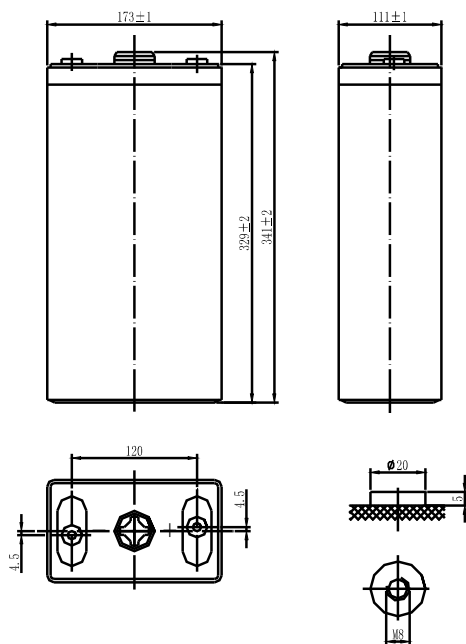
General Features

- 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, Pure lead grid for high power density.
- Long service life, float or cyclic applications.
- Maintenance-free operation.
- Low self discharge.

Dimensions and Weight

Length(mm / inch)	173 / 6.81
Width(mm / inch)	111 / 4.37
Height(mm / inch)	329 / 12.96
Total Height(mm / inch)	364 / 14.3
Approx. Weight(Kg / lbs)	15.3 / 33.7

* Weight deviation: $\pm 3\%$



Total height with removeable cover: 364

Performance Characteristics

Nominal Voltage	2V
Number of cell	1
Design Life	15 years
Nominal Capacity 77°F(25°C)	
10 hour rate (30A, 1.8V)	300Ah
5 hour rate (53.1A, 1.75V)	265.5Ah
1 hour rate (191A, 1.6V)	191Ah
Internal Resistance	
Fully Charged battery 77°F(25°C)	$\leq 0.75\text{mOhms}$
Self-Discharge	
2% 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)	1500A(5s)
Charge Methods: Constant Voltage Charge 77°F(25°C)	
Cycle use	2.40-2.45VPC
Maximum charging current	60A
Temperature compensation	-5.0mV/°C
Standby use	2.20-2.30VPC
Temperature compensation	-3.3mV/°C

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

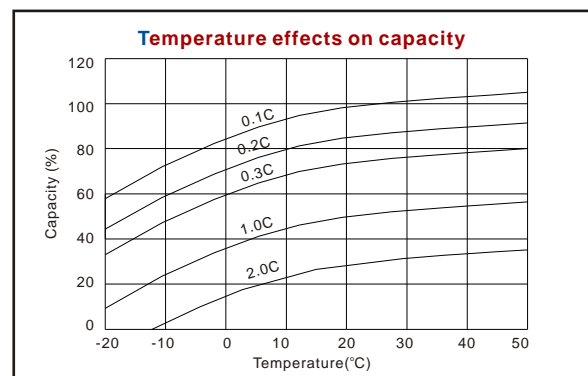
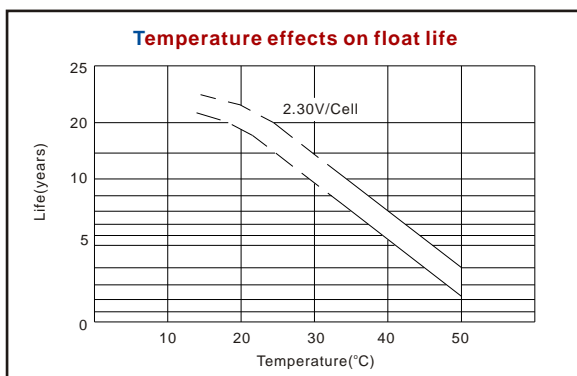
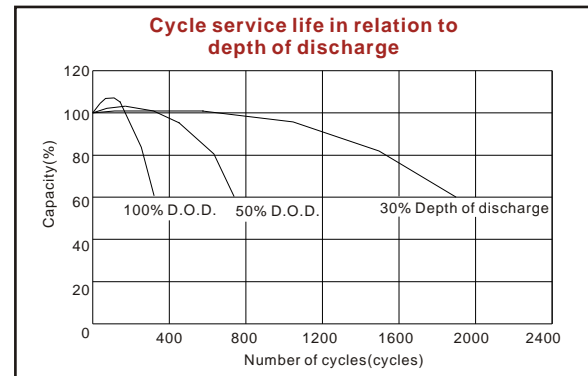
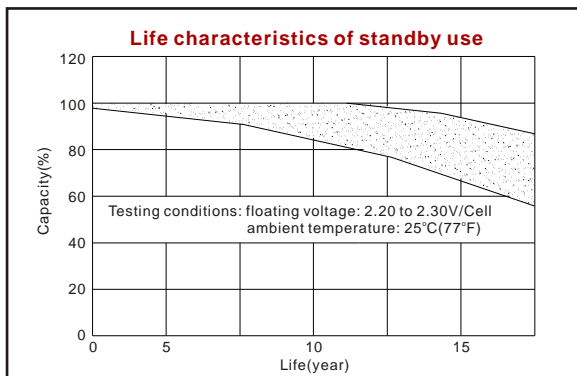
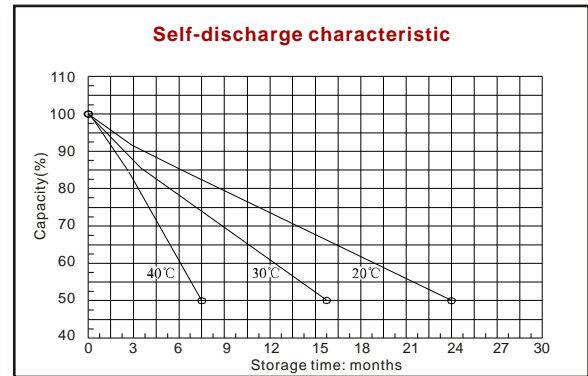
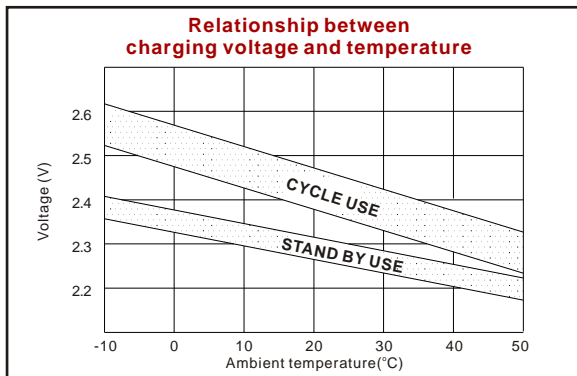
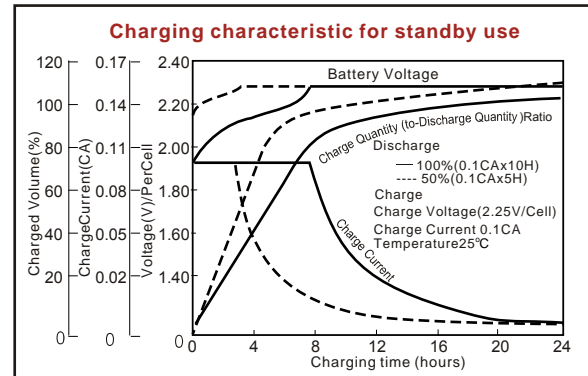
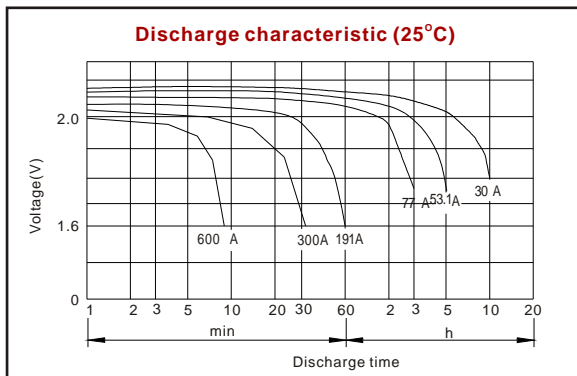
End Voltage/ volt per cell	30min	45min	1h	3h	5h	10h
1.60	315	233	191	85	57.5	31.5
1.65	302	223	184	82	56.3	31.2
1.70	287	213	176	80	54.8	31.0
1.75	272	204	170	77	53.1	30.4
1.80	257	193	162	75	51.3	30.0

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

End Voltage/ volt per cell	30min	45min	1h	3h	5h	10h
1.60	578	438	362	161	107	61.3
1.65	552	423	349	157	105	60.7
1.70	526	408	336	153	103	59.8
1.75	501	393	321	149	100	58.6
1.80	475	377	308	144	98	57.6

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

www.vision-batt.com



Shenzhen Center Power Tech. Co., Ltd.

Center Power Industrial Park, Tongfu Industrial District Dapeng Town, 518120 Shenzhen, China
Tel: (+86-755) 8431 8088 Fax: (+86-755) 8431 8038 E-mail: sales@vision-batt.com



www.vision-batt.com