

DEEP CYCLE AGM VRLA Battery

CL2-2000

CSPower CL series batteries are designed to have a large amount of stored current discharged between charging sessions, with very heavy non-porous battery plates to withstand repeated major discharging and charging cycle (deep cycle). The CSPower deep cycle AGM battery uses a different chemistry for the plates active paste material, and a slightly stronger electrolyte than normal battery electrolyte, thus the CL range features 30% higher cyclic life with 12-15 years of float life when compared to the standard Duration range.

2V Voltage	2000Ah Capacity	AGM Technology	VRLA Battery
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GENERAL FEATURES

- 30% more cyclic life through innovation at the PAM additives
- Long life expectancy of 10-15 years in floating condition
- Thick flat plate with high Tin low Calcium alloy
- Excellent deep discharge recovery capability
- Deep cycle performance: up to 2000 cycles
- @30% DOD

APPLICATIONS

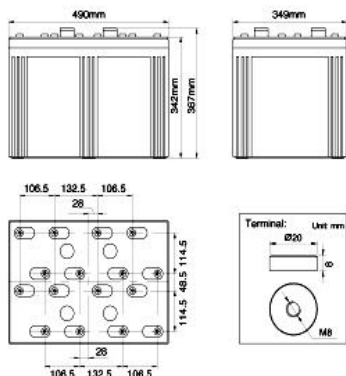
- Telecom Control Equipments
- UPS systems, Inverter
- Power Equipments
- Solar&Wind
- Emergency Power Systems

COMPLIED STANDARDS



DIMENSIONS & WEIGHT

Length(mm/inch)	490/19.3
Width(mm/inch)	350/13.8
Height(mm/inch)	342/13.5
Total Height(mm/inch)	383/15.1
Weight(kg/lbs)(±3%)	130/287



TECHNICAL SPECIFICATIONS

Nominal Voltage		2V(1 cell per unit)
Design Floating Life @25°C		15 Years
Nominal Capacity @25°C(10 hour rate@200A,1.8V)		2000Ah
Capacity @25°C	20hour rate (106A,1.8V)	2120Ah
	5 hour rate (354A, 1.75V)	1770Ah
	1 hour rate (1210A, 1.6V)	1210Ah
Internal Resistance	Full Charged Battery@25°C	≤0.12mΩ
Ambient Temperature	Discharge	-15°C~45°C
	Charge	-15°C~45°C
	Storage	-15°C~45°C
Max.Discharge Current@25°C		4000A(5s)
Capacity affected by Temperature (10 hour)	40°C	105%
	25°C	100%
	0°C	85%
	-15°C	65%
Self-Discharge@25°C per Month		3%
Charge (Constant Voltage) @25°C	Standby Use	Initial Charging Current Less than 300A Voltage 2.23-2.27V
	Cycle Use	Initial Charging Current Less than 300A Voltage 2.33-2.37V

BATTERY DISCHARGE TABEL

Discharge Constant Current per Cell (Amperes at 25°C)

F.V/Time	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	2992	1980	1474	1210	770	550	374	246	220.0	116.6
1.65V	2938	1944	1447	1188	756	540	367	242	216.0	114.5
1.70V	2883	1908	1420	1166	742	530	360	237	212.0	112.4
1.75V	2829	1872	1394	1144	728	520	354	233	208.0	110.2
1.80V	2720	1800	1340	1100	700	500	340	224	200.0	106.0

Discharge Constant Power per Cell (Watts at 25°C)

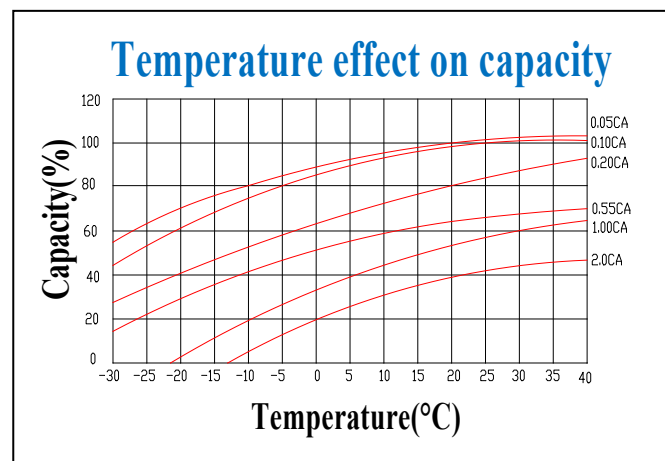
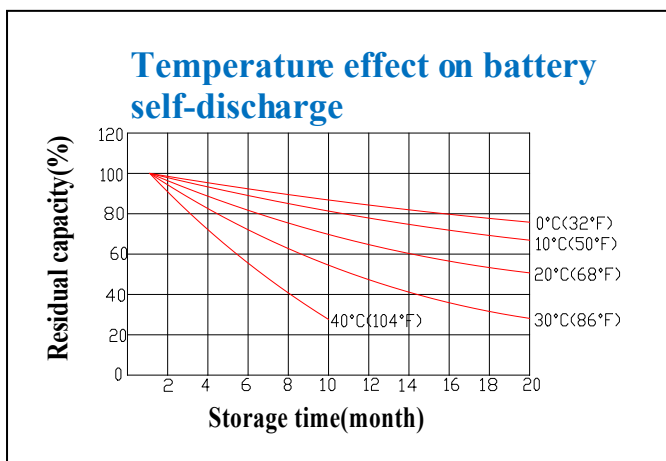
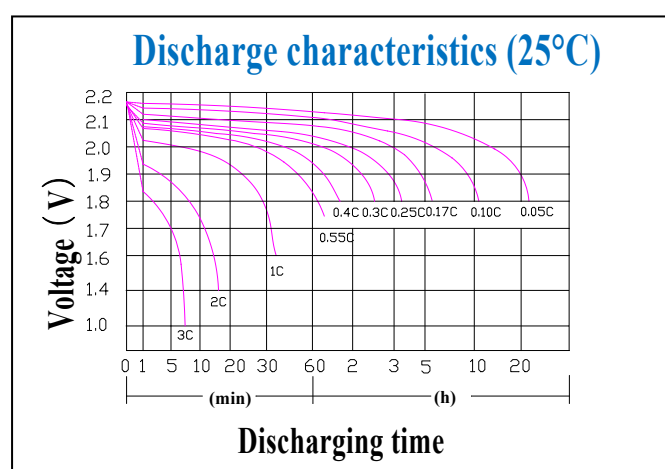
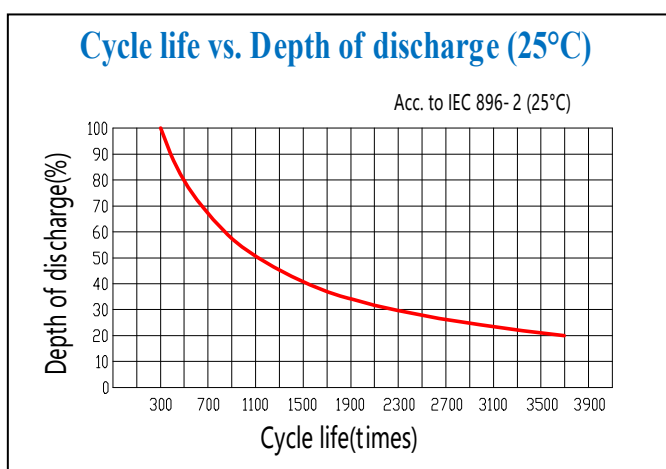
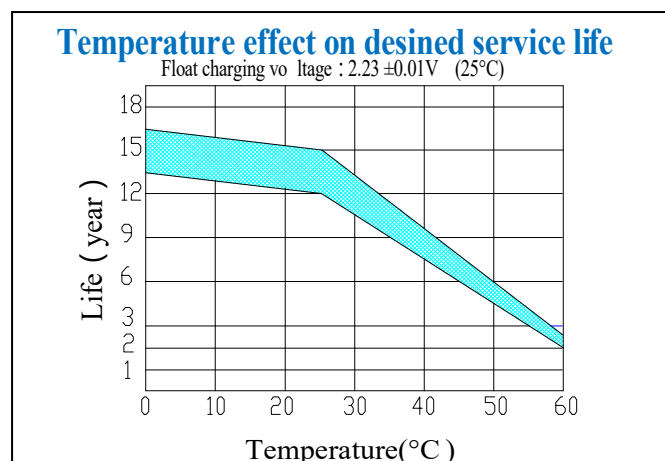
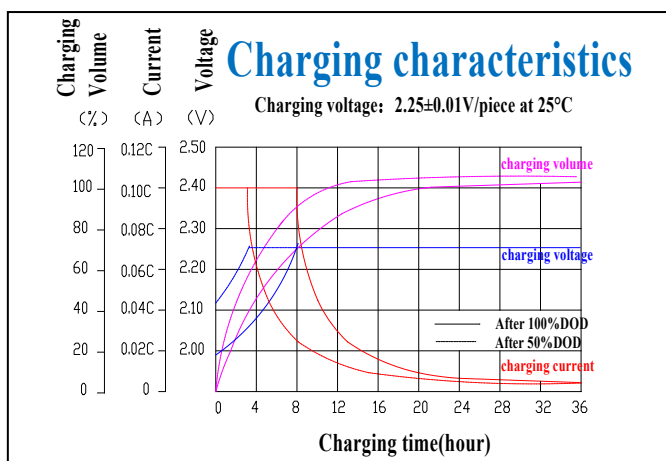
F.V/Time	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	5760	3812	2837	2329	1482	1059	720	474	423.5	224.5
1.65V	5655	3742	2786	2287	1455	1040	707	466	415.8	220.4
1.70V	5550	3673	2734	2245	1428	1020	694	457	408.1	216.3
1.75V	5445	3604	2683	2202	1401	1001	681	448	400.4	212.2
1.80V	5236	3465	2580	2118	1348	963	655	431	385.0	204.1

Note: The above data are average values, and can be obtained within 3 charge/discharge cycles. These are not minimum values. Cell and battery designs/specifications are subject to modification without notice. Contact **CSPower** for the latest information.

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PERFORMANCE CHARACTERISTICS



BATTERY CONSTRUCTION

Component	Positive plate	Negative plate	Container & Cover	Safety valve	Terminal	Separator	Electrolyte	Pillar seal
Features	Thick high Sn low Ca grid with special paste	Balanced Pb-Ca grid for improved recombination efficiency	Fire resistance ABS (UL94-V0)	Flame Si-Rubber and aging resistance	Female Copper Insert M8	Advanced AGM separator for high pressure cell design	Dilute high purity sulfuric acid	Two layers epoxy resin seal

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