

DEEP CYCLE AGM VRLA Battery

CL2-2500

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	2500Ah Capacity	AGM Technology	VRLA Battery
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COMPLIED STANDARDS



GENERAL FEATURES

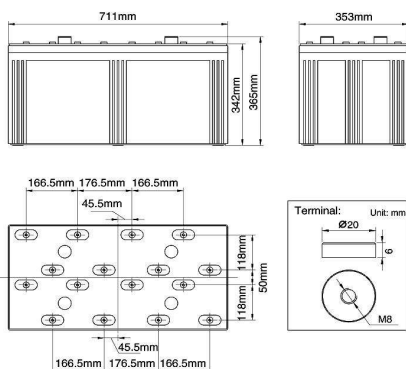
- 30% more cyclic life through innovation at the PAM additives
- Long life expectancy of 10-15 years in floating condition
- Thick flat plate with high Tin low Calcium alloy
- Excellent deep discharge recovery capability
- Deep cycle performance: up to 2000 cycles @30% DOD

APPLICATIONS

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

DIMENSIONS & WEIGHT

Length(mm/inch)	712/28.1
Width(mm/inch)	353/13.9
Height(mm/inch)	342/13.5
Total Height(mm/inch)	365/14.4
Weight(kg/lbs)(±3%)	180/397



TECHNICAL SPECIFICATIONS

Nominal Voltage		2V(1 cell per unit)
Design Floating Life @25°C		15 Years
Nominal Capacity @25°C(10 hour rate@250.0A,1.8V)		2500Ah
Capacity @25°C	20hour rate (132.5A,1.8V)	2650Ah
	5 hour rate (437A, 1.75V)	2185Ah
	1 hour rate (1458A, 1.6V)	1458Ah
Internal Resistance	Full Charged Battery@25°C	<0.1mΩ
Ambient Temperature	Discharge	-15°C~45°C
	Charge	-15°C~45°C
	Storage	-15°C~45°C
Max.Discharge Current@25°C		5000A(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 337A Voltage 2.23-2.27V
	Cycle Use	Initial Charging Current Less than 337A Voltage 2.33-2.37V

BATTERY DISCHARGE TABLE

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

F.V/Time	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	3738	2338	1760	1458	949	679	462	308	275	145.8
1.65V	3670	2295	1728	1431	932	667	454	302	270	143.1
1.70V	3603	2253	1696	1405	914	655	445	297	265	140.5
1.75V	3535	2210	1664	1378	897	642	437	291	260	137.8
1.80V	3340	2125	1600	1325	863	618	420	280	250	132.5

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

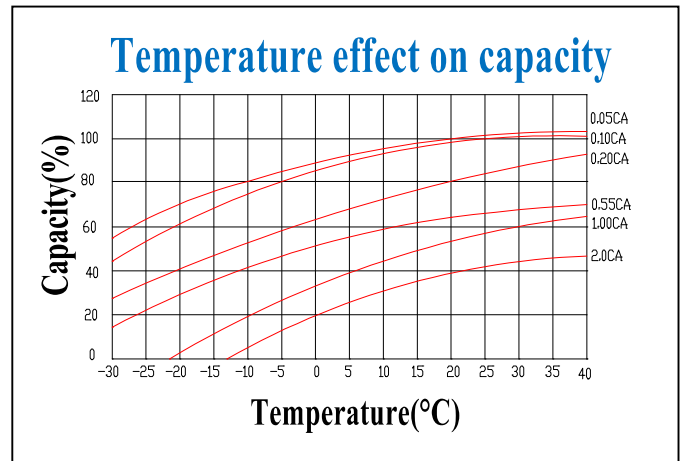
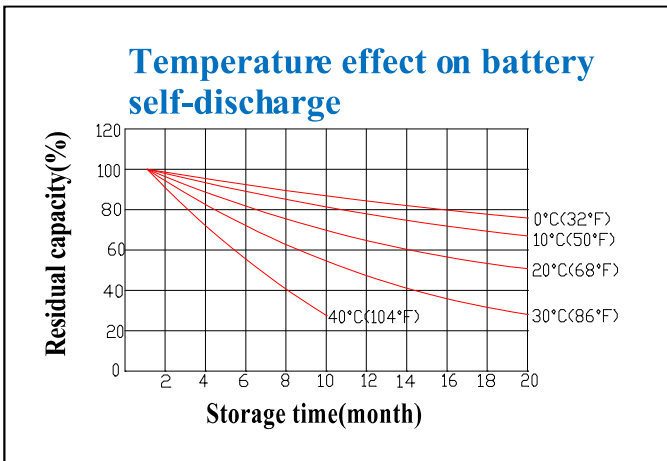
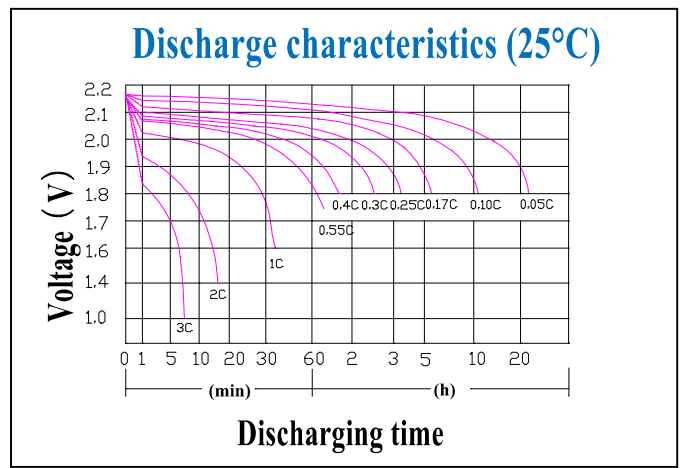
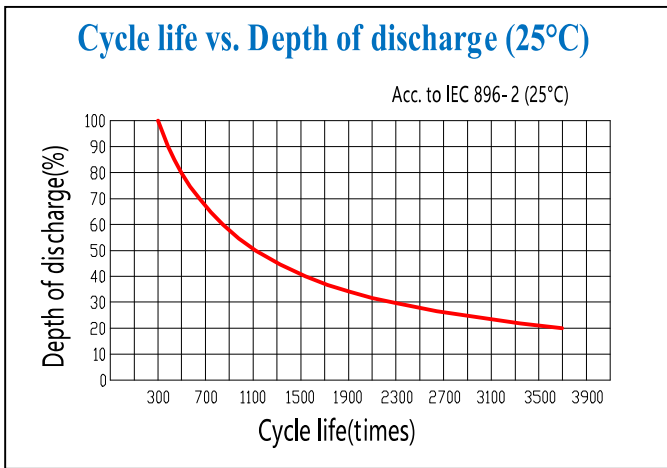
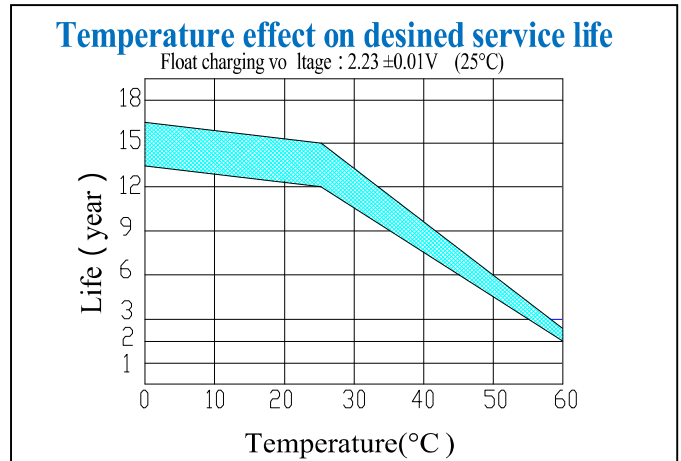
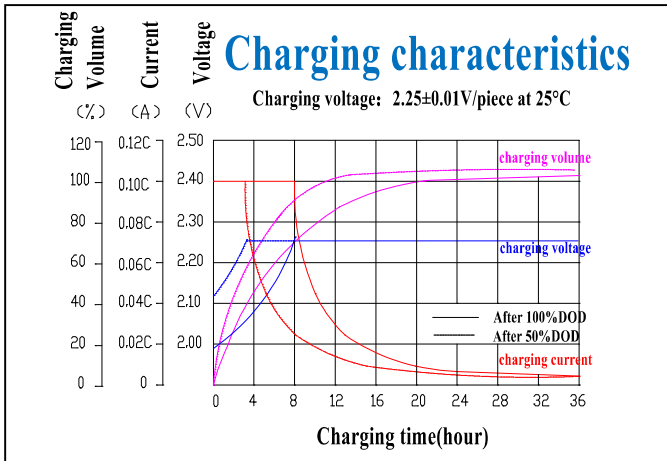
F.V/Time	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	7196	4266	3212	2660	1731	1240	843	562	502	266
1.65V	7066	4188	3154	2612	1700	1217	828	552	493	261
1.70V	6935	4111	3095	2563	1669	1195	812	542	484	256
1.75V	6804	4033	3037	2515	1637	1172	797	531	475	251
1.80V	6542	3878	2920	2418	1574	1127	767	511	456	242

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