

DEEP CYCLE AGM VRLA Battery

CL2-500

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

500Ah
Capacity

AGM
Technology

VRLA
Battery



COMPLIED STANDARDS



GENERAL FEATURES

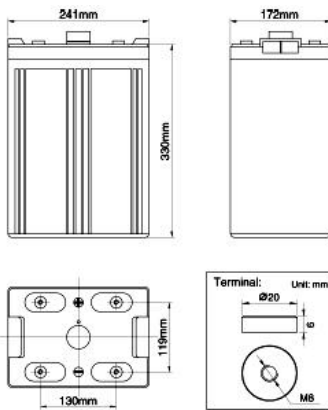
- 30% more cyclic life through innovation at the PAM additives
- Long life expectancy of 10-15 years in floating condition
- Thick flat plate with high Tin low Calcium alloy
- Excellent deep discharge recovery capability
- Deep cycle performance: up to 2000 cycles @30% DOD

APPLICATIONS

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

DIMENSIONS & WEIGHT

Length(mm/inch)	241/9.5
Width(mm/inch)	171/6.8
Height(mm/inch)	330/13
Total Height(mm/inch)	366/14.4
Weight(kg/lbs)	31/68.5



TECHNICAL SPECIFICATIONS

Nominal Voltage		2V(1 cell per unit)
Design Floating Life @25°C		15Years
Nominal Capacity @25°C(10 hour rate@50.0A,1.8V)		500Ah
Capacity @25°C	20hour rate (26.5A,1.8V)	530Ah
	5 hour rate (88A, 1.75V)	440Ah
	1 hour rate (303A, 1.6V)	303Ah
Internal Resistance	Full Charged Battery@25°C	≤0.31mΩ
Ambient Temperature	Discharge	-15°C~45°C
	Charge	-15°C~45°C
	Storage	-15°C~45°C
Max.Discharge Current@25°C		1000A(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 75A Voltage 2.23-2.27V
	Cycle Use	Initial Charging Current Less than 75A 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	748	495	369	303	193	138	94	62	55.0	29.2
1.65V	734	486	362	297	189	135	92	60	54.0	28.6
1.70V	721	477	355	292	186	133	90	59	53.0	28.1
1.75V	707	468	348	286	182	130	88	58	52.0	27.6
1.80V	680	450	335	275	175	125	85	56	50.0	26.5

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

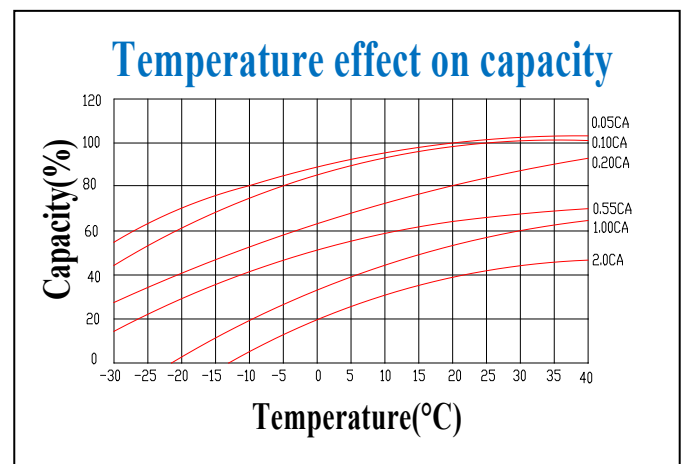
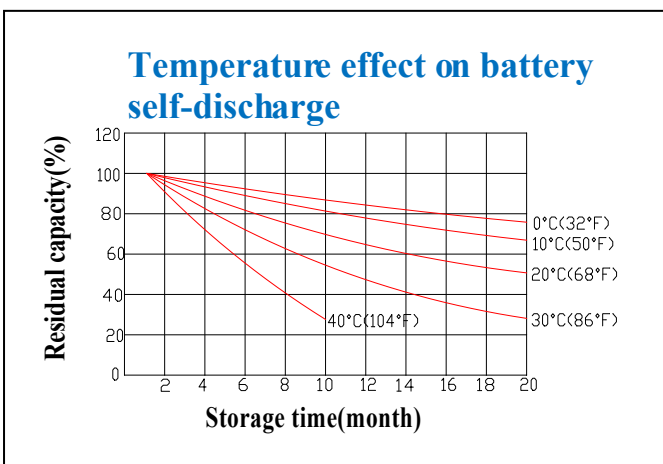
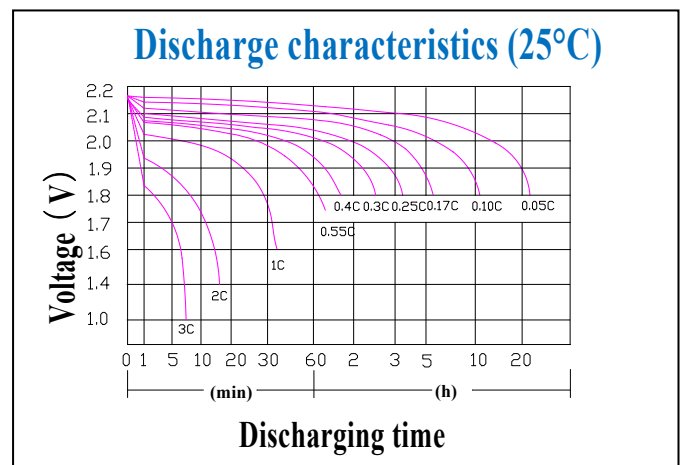
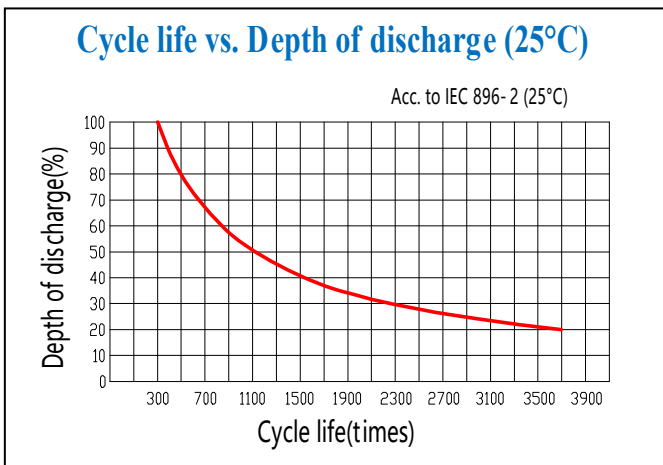
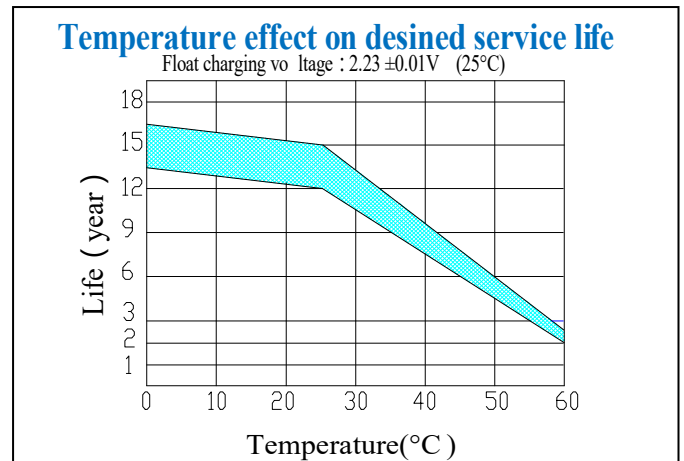
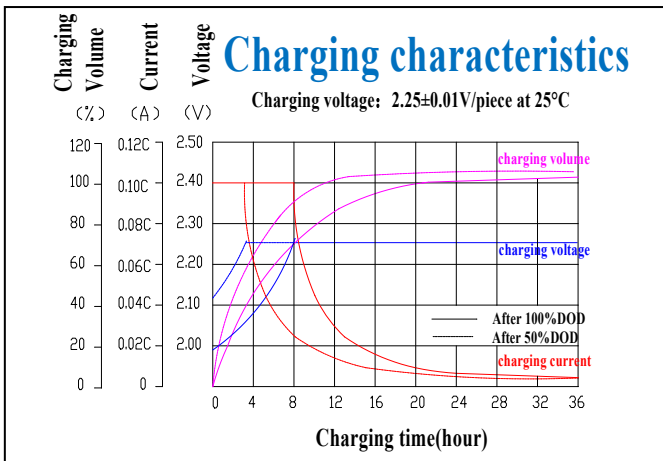
F.V/Time	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	1440	953	709	582	371	265	180	119	105.9	56.1
1.65V	1414	936	696	572	364	260	177	116	104.0	55.1
1.70V	1388	918	684	561	357	255	173	114	102.0	54.1
1.75V	1361	901	671	551	350	250	170	112	100.1	53.1
1.80V	1309	866	645	529	337	241	164	108	96.3	51.0

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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