

DEEP CYCLE AGM VRLA Battery

CL2-1200

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

1200Ah
Capacity

AGM
Technology

VRLA
Battery



COMPLIED STANDARDS



GENERAL FEATURES

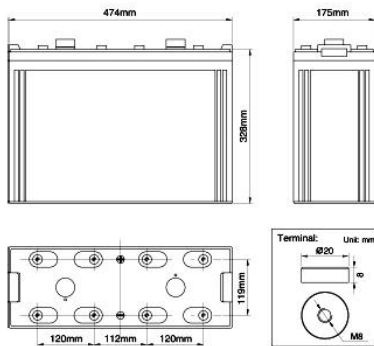
- 30% more cyclic life through innovation at the PAM additives
- Long life expectancy of 10-15 years in floating condition
- Thick flat plate with high Tin low Calcium alloy
- Excellent deep discharge recovery capability
- Deep cycle performance: up to 2000 cycles @30% DOD

APPLICATIONS

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

DIMENSIONS & WEIGHT

Length(mm/inch)	474/18.6
Width(mm/inch)	175/6.89
Height(mm/inch)	330/13
Total Height(mm/inch)	365/14.4
Weight(kg/lbs)(±3%)	68.5/151



TECHNICAL SPECIFICATIONS

Nominal Voltage		2V(1 cell per unit)
Design Floating Life @25°C		15 Years
Nominal Capacity @25°C(10 hour rate@120.0A,1.8V)		1200Ah
Capacity @25°C	20hour rate (63.6A,1.8V)	1272Ah
	5 hour rate (212A, 1.75V)	1060Ah
	1 hour rate (726A, 1.6V)	726Ah
Internal Resistance	Full Charged Battery@25°C	≤0.18mΩ
Ambient Temperature	Discharge	-15°C~45°C
	Charge	-15°C~45°C
	Storage	-15°C~45°C
Max.Discharge Current@25°C		2400A(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 180A Voltage 2.23-2.27V
	Cycle Use	Initial Charging Current Less than 180A 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	1795	1188	884	726	462	330	224	148	132.0	70.0
1.65V	1763	1166	868	713	454	324	220	145	129.6	68.7
1.70V	1730	1145	852	700	445	318	216	142	127.2	67.4
1.75V	1697	1123	836	686	437	312	212	140	124.8	66.1
1.80V	1632	1080	804	660	420	300	204	134	120.0	63.6

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

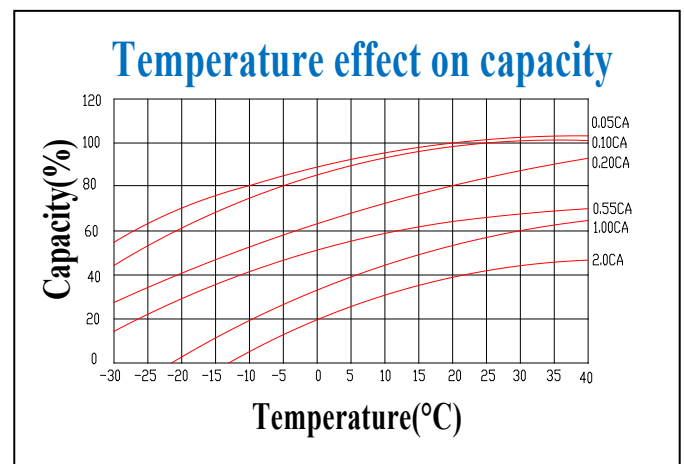
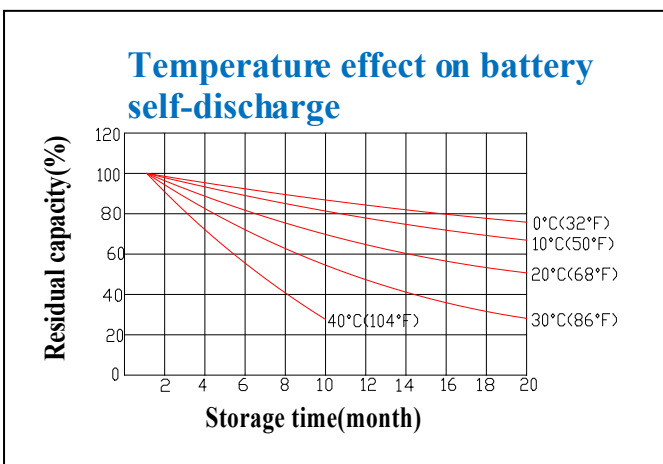
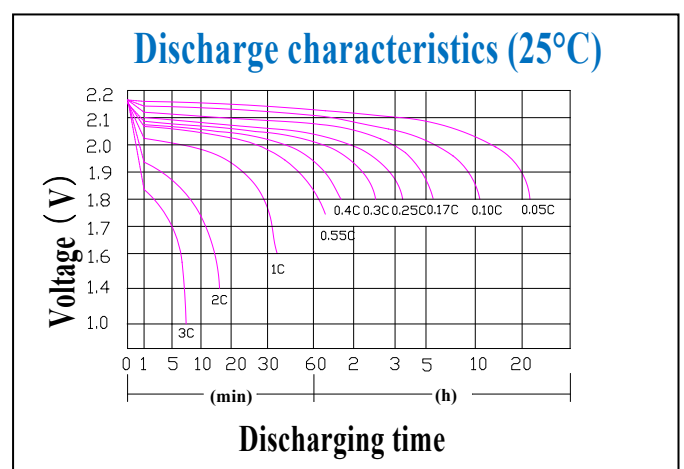
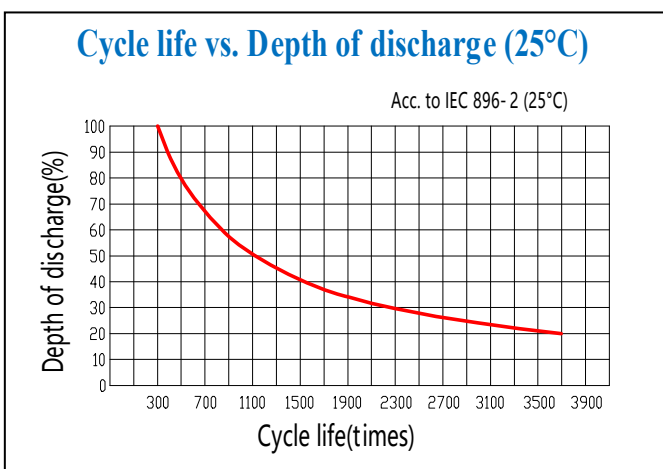
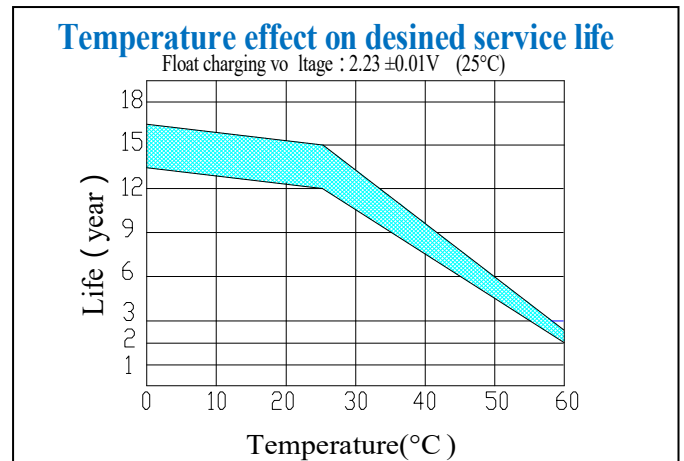
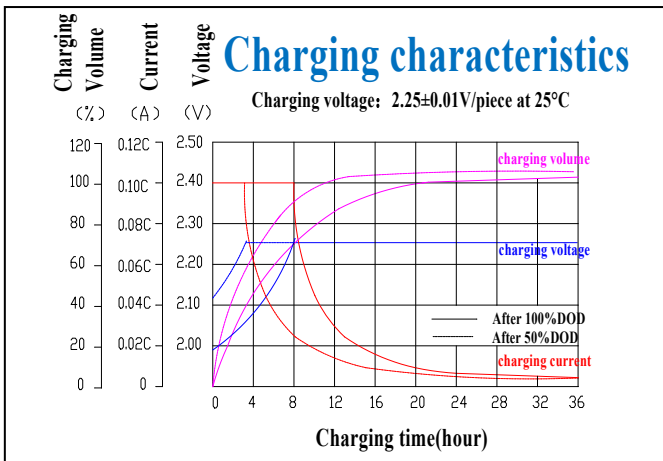
F.V/Time	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	3456	2287	1702	1398	889	635	432	285	254.1	134.7
1.65V	3393	2245	1672	1372	873	624	424	279	249.5	132.2
1.70V	3330	2204	1641	1347	857	612	416	274	244.9	129.8
1.75V	3267	2162	1610	1321	841	601	408	269	240.2	127.3
1.80V	3142	2079	1548	1271	809	578	393	259	231.0	122.4

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