

DEEP CYCLE AGM VRLA Battery

CL2-1000

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

1000Ah
Capacity

AGM
Technology

VRLA
Battery



COMPLIED STANDARDS



GENERAL FEATURES

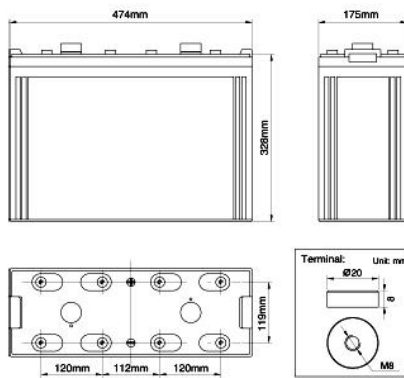
- 30% more cyclic life through innovation at the PAM additives
- Long life expectancy of 10-15 years in floating condition
- Thick flat plate with high Tin low Calcium alloy
- Excellent deep discharge recovery capability
- Deep cycle performance: up to 2000 cycles @30% DOD

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%)	62/136.7



TECHNICAL SPECIFICATIONS

Nominal Voltage		2V(1 cell per unit)
Design Floating Life @25°C		15 Years
Nominal Capacity @25°C(10 hour rate@100.0A,1.8V)		1000Ah
Capacity @25°C	20hour rate (53A,1.8V)	1060Ah
	5 hour rate (177A, 1.75V)	885Ah
	1 hour rate (605A, 1.6V)	605Ah
Internal Resistance	Full Charged Battery@25°C	≤0.19mΩ
Ambient Temperature	Discharge	-15°C~45°C
	Charge	-15°C~45°C
	Storage	-15°C~45°C
Max.Discharge Current@25°C		2000A(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 150A Voltage 2.23-2.27V
	Cycle Use	Initial Charging Current Less than 150A 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	1496	990	737	605	385	275	187	123	110.0	58.3
1.65V	1469	972	724	594	378	270	184	121	108.0	57.2
1.70V	1442	954	710	583	371	265	180	119	106.0	56.2
1.75V	1414	936	697	572	364	260	177	116	104.0	55.1
1.80V	1360	900	670	550	350	250	170	112	100.0	53.0

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

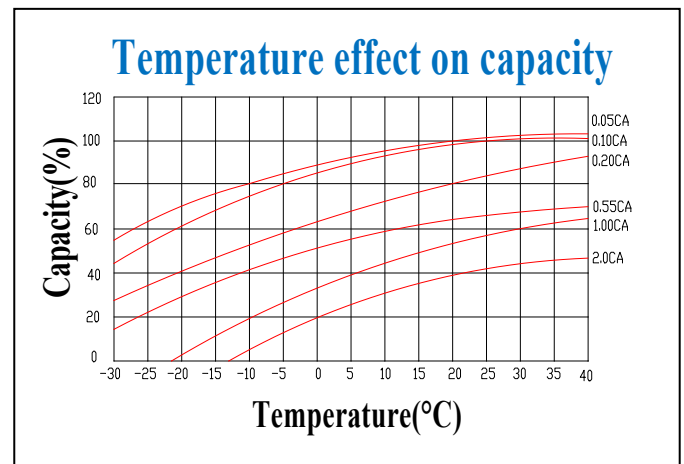
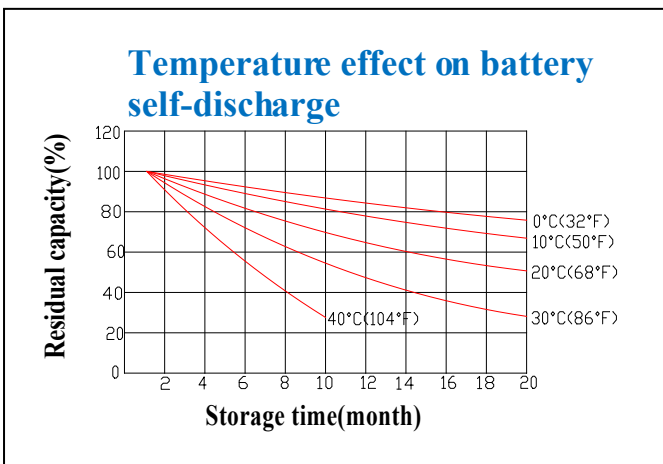
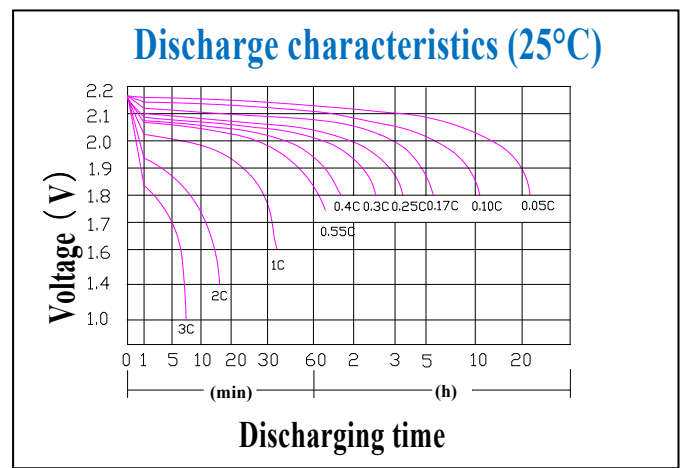
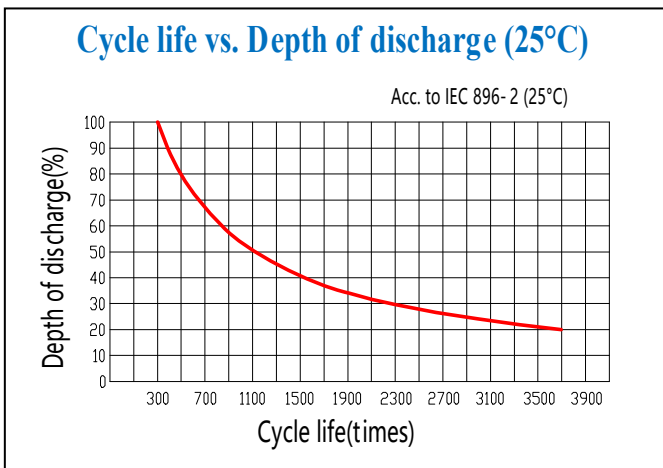
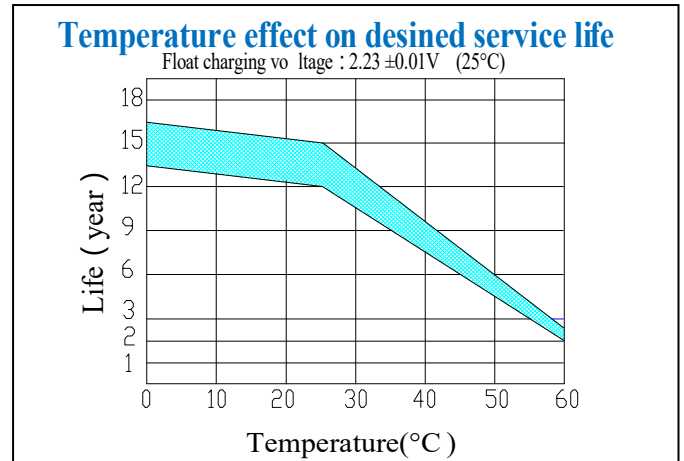
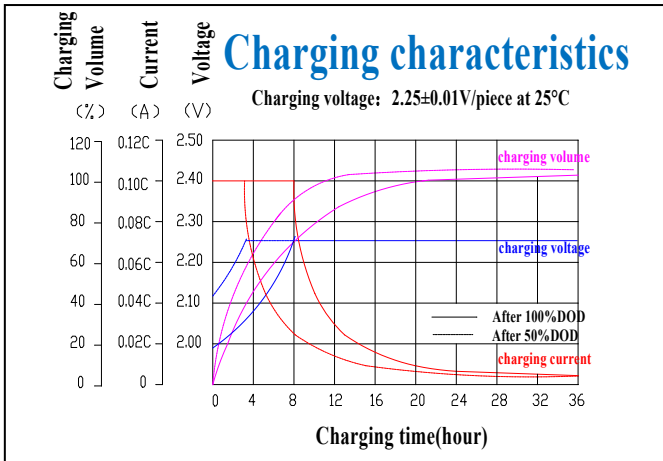
F.V/Time	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	2880	1906	1419	1165	741	529	360	237	211.8	112.2
1.65V	2827	1871	1393	1143	728	520	353	233	207.9	110.2
1.70V	2775	1836	1367	1122	714	510	347	229	204.1	108.1
1.75V	2723	1802	1341	1101	701	501	340	224	200.2	106.1
1.80V	2618	1733	1290	1059	674	481	327	216	192.5	102.0

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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