

DEEP CYCLE AGM VRLA Battery

CL2-300

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

300Ah
Capacity

AGM
Technology

VRLA
Battery



COMPLIED STANDARDS



GENERAL FEATURES

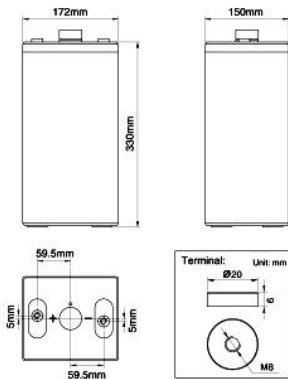
- 30% more cyclic life through innovation at the PAM additives
- Long life expectancy of 10-15 years in floating condition
- Thick flat plate with high Tin low Calcium alloy
- Excellent deep discharge recovery capability
- Deep cycle performance: up to 2000 cycles @30% DOD

APPLICATIONS

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

DIMENSIONS & WEIGHT

Length(mm/inch)	172/6.77
Width(mm/inch)	150/5.9
Height(mm/inch)	330/13
Total Height(mm/inch)	366/14.4
Weight(kg/lbs)	18.5/40.8



TECHNICAL SPECIFICATIONS

Nominal Voltage		2V(1 cell per unit)
Design Floating Life @25°C		12 Years
Nominal Capacity @25°C (10 hour rate@30.0A,1.8V)		300Ah
Capacity @25°C	20hour rate (15.9A,1.8V)	318Ah
	5 hour rate (53A, 1.75V)	265Ah
	1 hour rate (182A, 1.6V)	182Ah
Internal Resistance	Full Charged Battery@25°C	≤0.45mΩ
Ambient Temperature	Discharge	-15°C~45°C
	Charge	-15°C~45°C
	Storage	-15°C~45°C
Max.Discharge Current@25°C		600A(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 45A Voltage 2.23-2.27V
	Cycle Use	Initial Charging Current Less than 45A 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	449	297	221	182	116	83	56	37	33.0	17.5
1.65V	441	292	217	178	113	81	55	36	32.4	17.2
1.70V	432	286	213	175	111	80	54	36	31.8	16.9
1.75V	424	281	209	172	109	78	53	35	31.2	16.5
1.80V	408	270	201	165	105	75	51	34	30.0	15.9

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

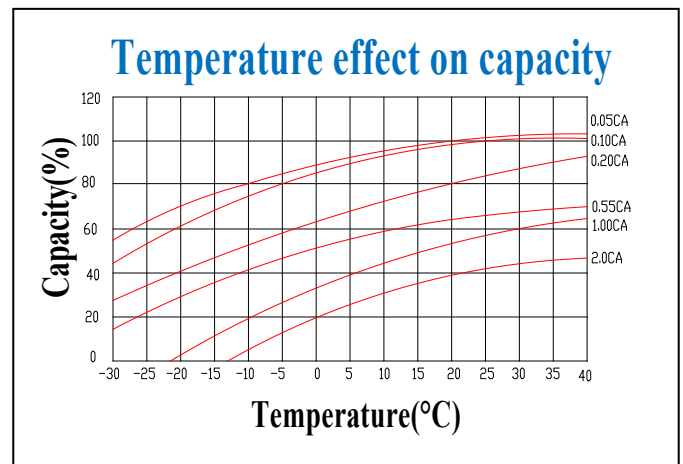
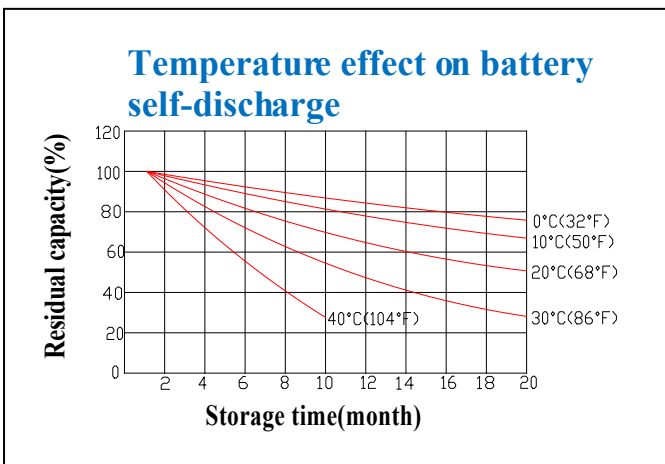
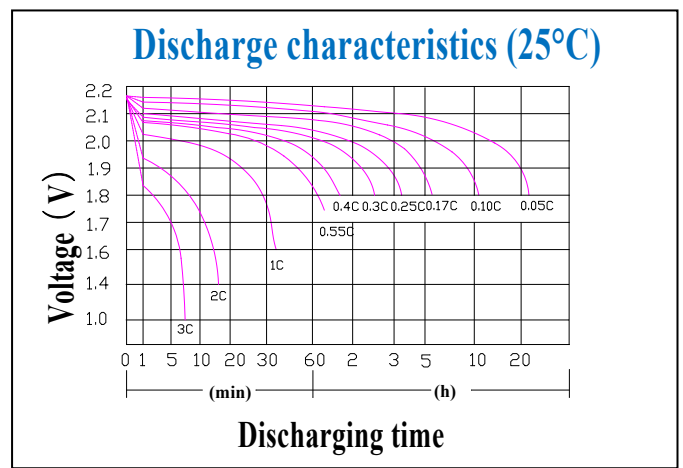
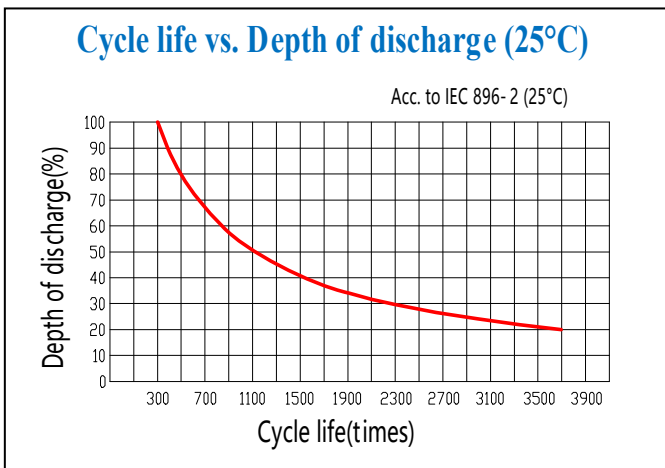
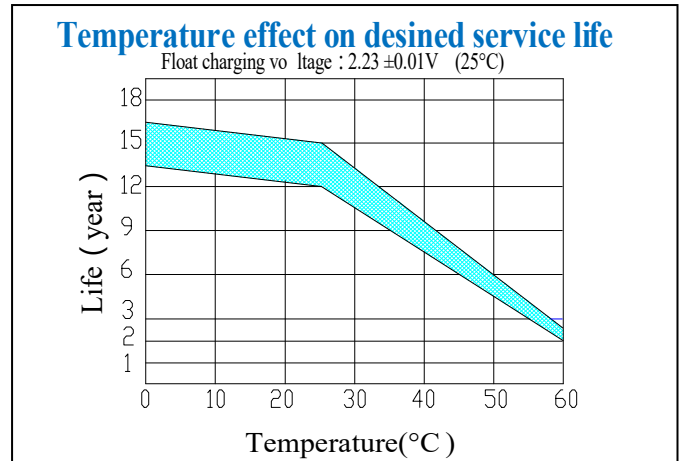
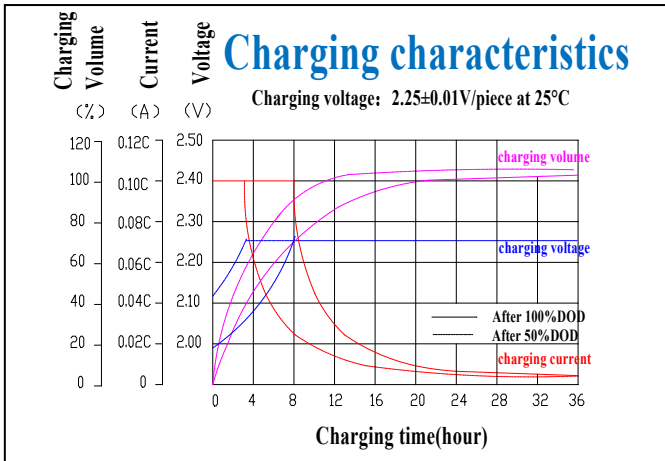
F.V/Time	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	864	572	426	349	222	159	108	71	63.5	33.7
1.65V	848	561	418	343	218	156	106	70	62.4	33.1
1.70V	833	551	410	337	214	153	104	69	61.2	32.4
1.75V	817	541	402	330	210	150	102	67	60.1	31.8
1.80V	785	520	387	318	202	144	98	65	57.8	30.6

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