

# DEEP CYCLE AGM VRLA Battery

# CL2-600

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

600Ah  
Capacity

AGM  
Technology

VRLA  
Battery



### COMPLIED STANDARDS



### GENERAL FEATURES

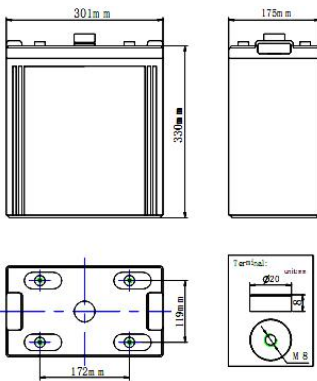
- 30% more cyclic life through innovation at the PAM additives
- Long life expectancy of 10-15 years in floating condition
- Thick flat plate with high Tin low Calcium alloy
- Excellent deep discharge recovery capability
- Deep cycle performance: up to 2000 cycles @30% DOD

### APPLICATIONS

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

### DIMENSIONS & WEIGHT

Length(mm/inch)	301/11.85
Width(mm/inch)	175/6.89
Height(mm/inch)	330/13
Total Height(mm/inch)	366/14.4
Weight(kg/lbs)	37.7/83.1



### TECHNICAL SPECIFICATIONS

Nominal Voltage		2V(1 cell per unit)
Design Floating Life @25°C		15 Years
Nominal Capacity @25°C (10 hour rate@60.0A,1.8V)		600Ah
Capacity @25°C	20hour rate (31.8A,1.8V)	636Ah
	5 hour rate (106A, 1.75V)	530Ah
	1 hour rate (363A, 1.6V)	363Ah
Internal Resistance	Full Charged Battery@25°C	≤0.27mΩ
Ambient Temperature	Discharge	-15°C~45°C
	Charge	-15°C~45°C
	Storage	-15°C~45°C
Max.Discharge Current@25°C		1200A(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 90A Voltage 2.23-2.27V
	Cycle Use	Initial Charging Current Less than 90A 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	898	594	442	363	231	165	112	74	66.0	35.0
1.65V	881	583	434	356	227	162	110	73	64.8	34.3
1.70V	865	572	426	350	223	159	108	71	63.6	33.7
1.75V	849	562	418	343	218	156	106	70	62.4	33.1
1.80V	816	540	402	330	210	150	102	67	60.0	31.8

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

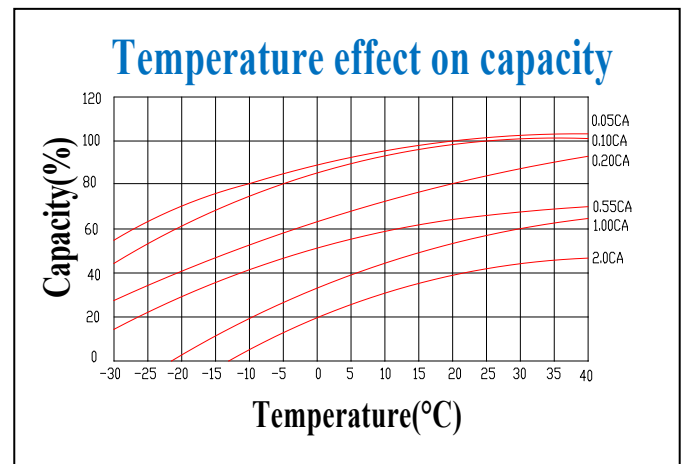
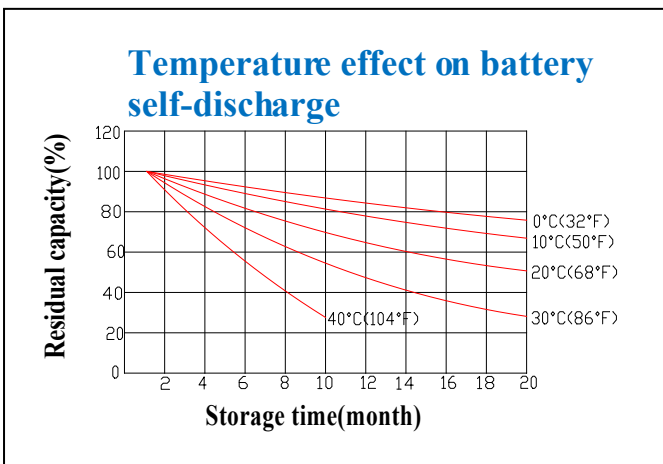
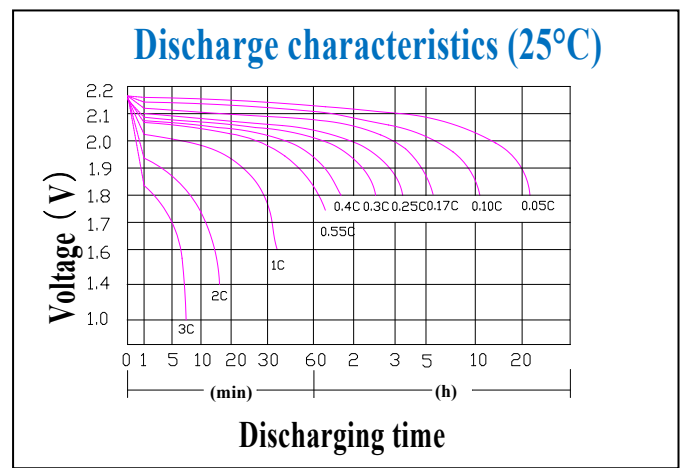
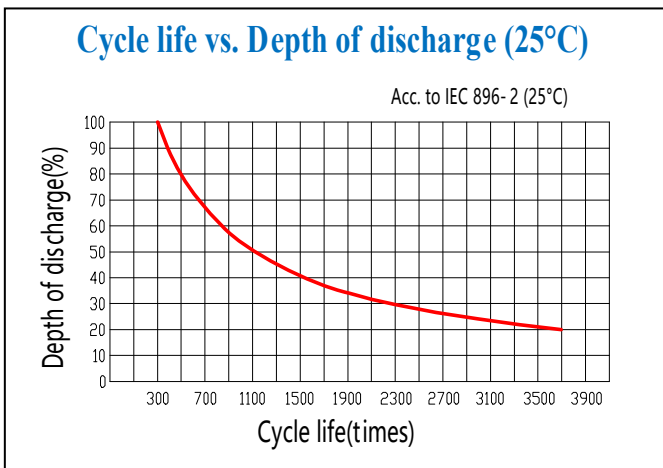
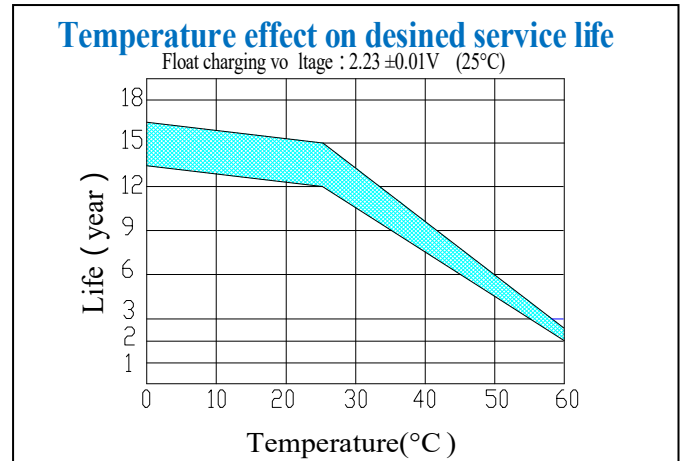
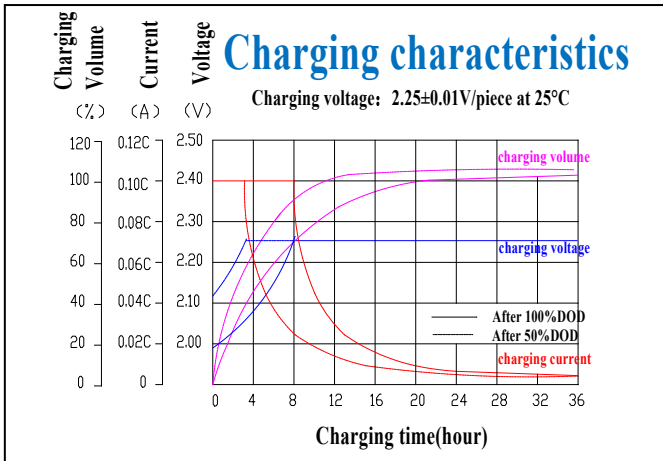
F.V/Time	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	1728	1143	851	699	445	318	216	142	127.1	67.3
1.65V	1696	1123	836	686	437	312	212	140	124.7	66.1
1.70V	1665	1102	820	673	429	306	208	137	122.4	64.9
1.75V	1634	1081	805	661	420	300	204	135	120.1	63.7
1.80V	1571	1040	774	635	404	289	196	129	115.5	61.2

**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