

# DEEP CYCLE AGM VRLA Battery

# CL2-800

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

800Ah  
Capacity

AGM  
Technology

VRLA  
Battery



### COMPLIED STANDARDS



### GENERAL FEATURES

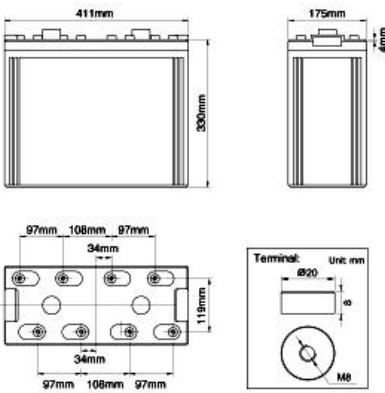
- 30% more cyclic life through innovation at the PAM additives
- Long life expectancy of 10-15 years in floating condition
- Thick flat plate with high Tin low Calcium alloy
- Excellent deep discharge recovery capability
- Deep cycle performance: up to 2000 cycles @30% DOD

### APPLICATIONS

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

### DIMENSIONS & WEIGHT

Length(mm/inch)	411/16.18
Width(mm/inch)	174/6.85
Height(mm/inch)	330/13
Total Height(mm/inch)	365/14.4
Weight(kg/lbs)(±3%)	51.6/113.8



### TECHNICAL SPECIFICATIONS

Nominal Voltage		2V(1 cell per unit)
Design Floating Life @25°C		15 Years
Nominal Capacity @25°C (10 hour rate@80.0A,1.8V)		800Ah
Capacity @25°C	20hour rate (42.4A,1.8V)	848Ah
	5 hour rate (141A, 1.75V)	705Ah
	1 hour rate (484A, 1.6V)	484Ah
Internal Resistance	Full Charged Battery@25°C	≤0.26mΩ
Ambient Temperature	Discharge	-15°C~45°C
	Charge	-15°C~45°C
	Storage	-15°C~45°C
Max.Discharge Current@25°C		1600A(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 120A Voltage 2.23-2.27V
	Cycle Use	Initial Charging Current Less than 120A 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	1197	792	590	484	308	220	150	99	88.0	46.6
1.65V	1175	778	579	475	302	216	147	97	86.4	45.8
1.70V	1153	763	568	466	297	212	144	95	84.8	44.9
1.75V	1132	749	557	458	291	208	141	93	83.2	44.1
1.80V	1088	720	536	440	280	200	136	90	80.0	42.4

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

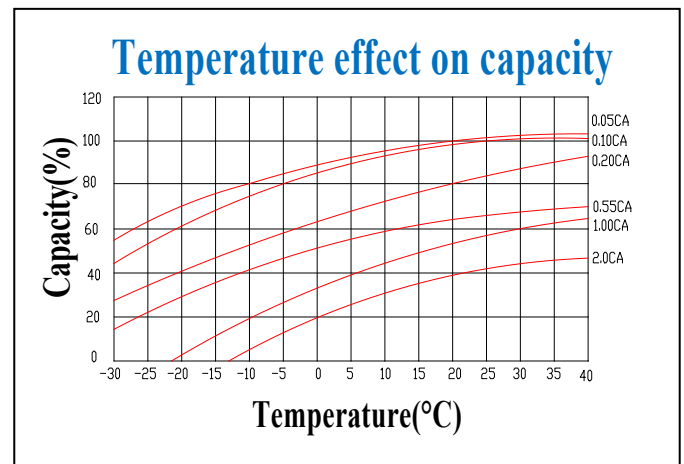
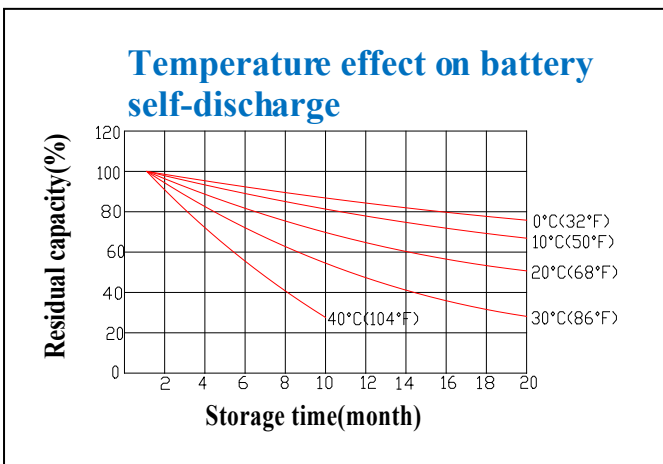
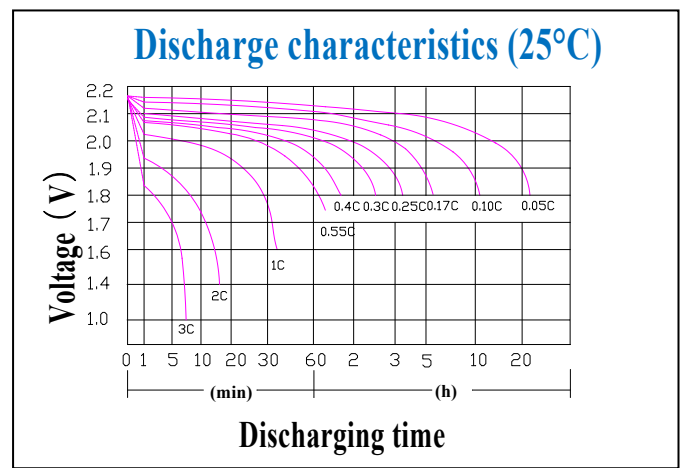
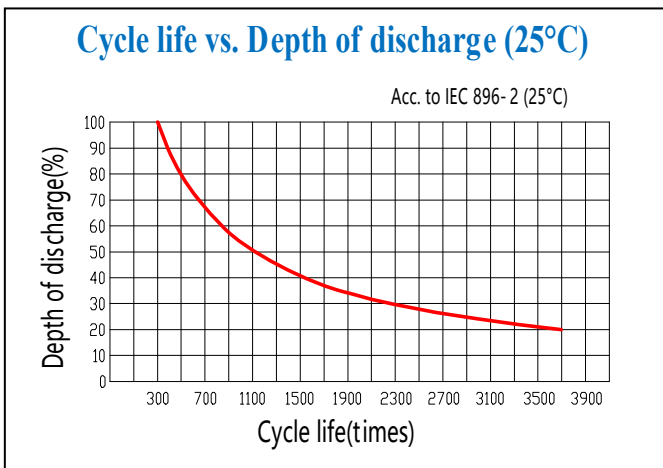
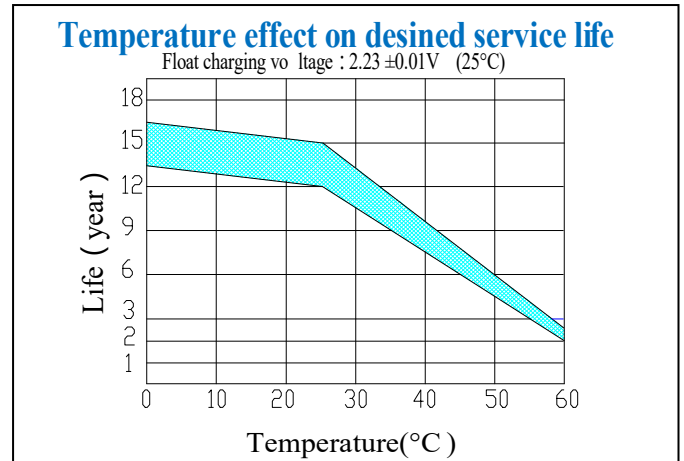
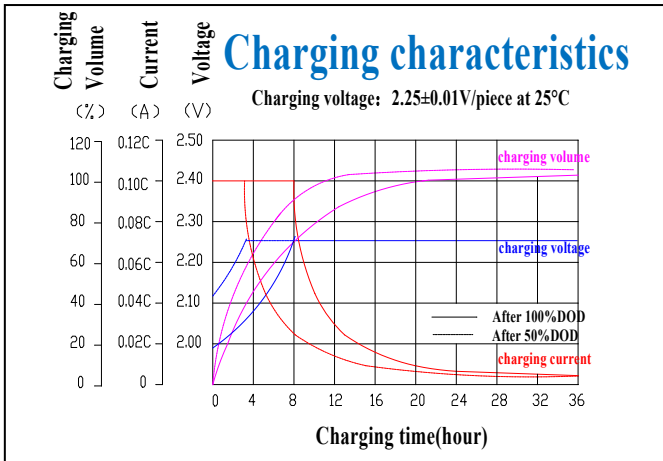
F.V/Time	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	2304	1525	1135	932	593	424	288	190	169.4	89.8
1.65V	2262	1497	1114	915	582	416	283	186	166.3	88.1
1.70V	2220	1469	1094	898	571	408	278	183	163.2	86.5
1.75V	2178	1441	1073	881	561	400	272	179	160.2	84.9
1.80V	2094	1386	1032	847	539	385	262	172	154.0	81.6

**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

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