

# DEEP CYCLE AGM VRLA Battery

# CL2-1500

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 10-15 years of float life when compared to the standard Duration range.

<b>2V</b> Voltage	<b>1500Ah</b> Capacity	<b>AGM</b> Technology	<b>VRLA</b> Battery
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### COMPLIED STANDARDS



### GENERAL FEATURES

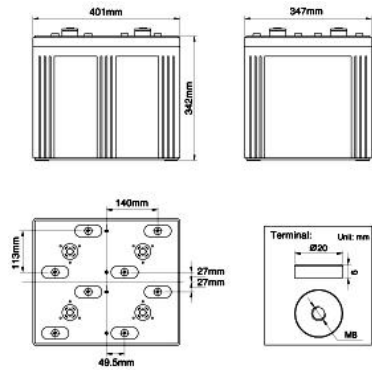
- 30% more cyclic life through innovation at the PAM additives
- Long life expectancy of 10-15 years in floating condition
- Thick flat plate with high Tin low Calcium alloy
- Excellent deep discharge recovery capability
- Deep cycle performance: up to 2000 cycles
- @30% DOD

### APPLICATIONS

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

### DIMENSIONS & WEIGHT

Length(mm/inch)	401/15.8
Width(mm/inch)	351/13.8
Height(mm/inch)	342/13.5
Total Height(mm/inch)	378/14.9
Weight(kg/lbs)(±3%)	96.5/212.8



### TECHNICAL SPECIFICATIONS

Nominal Voltage		2V(1 cell per unit)
Design Floating Life @25°C		15 Years
Nominal Capacity @25°C(10 hour rate@150A,1.8V)		1500Ah
Capacity @25°C	20hour rate (79.5A,1.8V)	1590Ah
	5 hour rate (265A, 1.75V)	1325Ah
	1 hour rate (908A, 1.6V)	908Ah
Internal Resistance	Full Charged Battery@25°C	≤0.13mΩ
Ambient Temperature	Discharge	-15°C~45°C
	Charge	-15°C~45°C
	Storage	-15°C~45°C
Max.Discharge Current@25°C		3000A(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 225A Voltage 2.23-2.27V
	Cycle Use	Initial Charging Current Less than 225A 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	2244	1485	1106	908	578	413	281	185	165.0	87.5
1.65V	2203	1458	1085	891	567	405	275	181	162.0	85.9
1.70V	2162	1431	1065	875	557	398	270	178	159.0	84.3
1.75V	2122	1404	1045	858	546	390	265	175	156.0	82.7
1.80V	2040	1350	1005	825	525	375	255	168	150.0	79.5

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

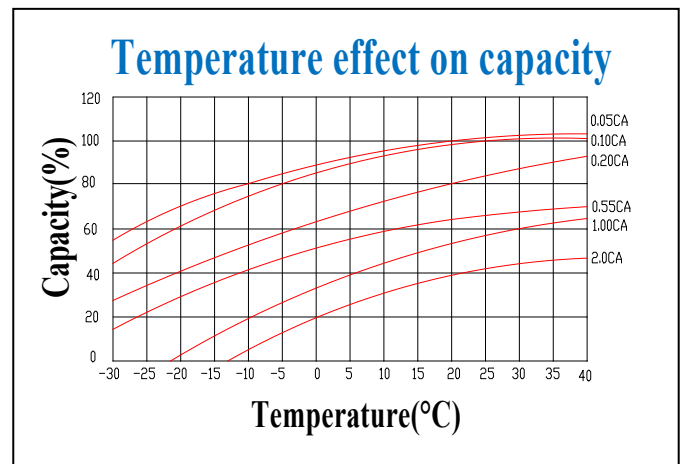
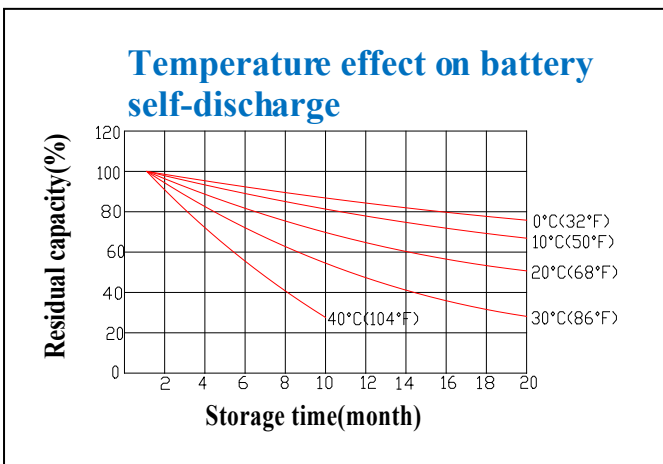
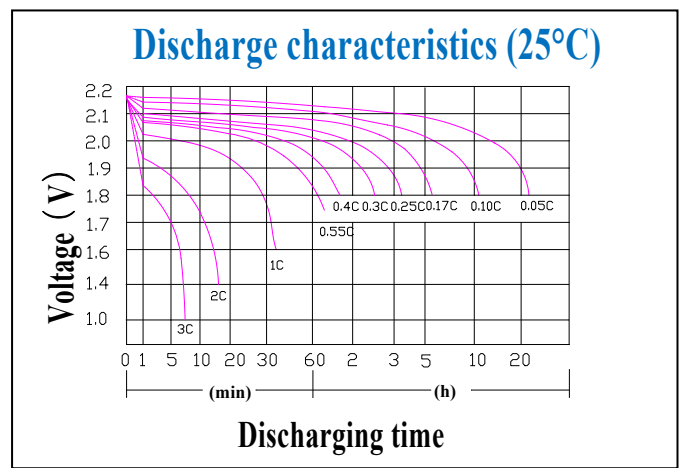
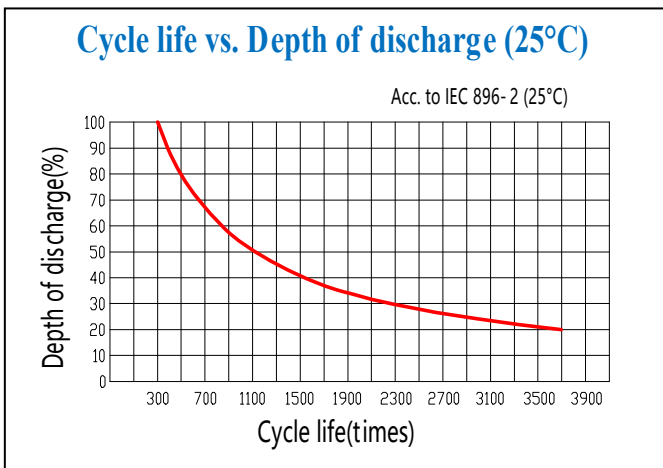
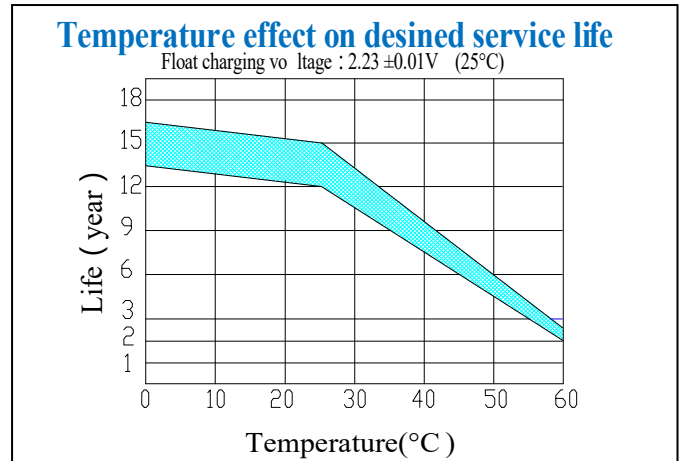
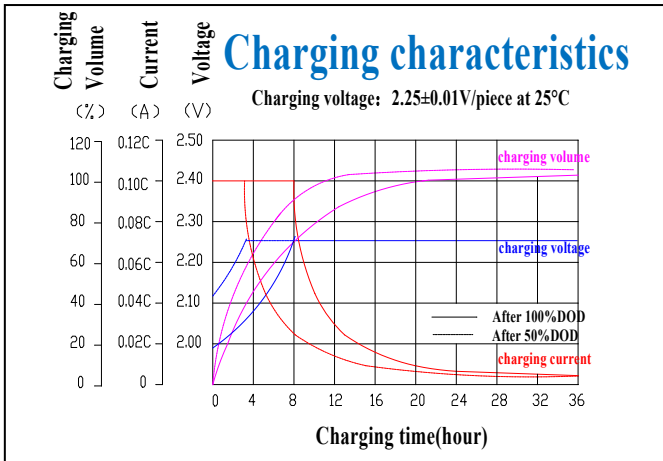
F.V/Time	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	4320	2859	2128	1747	1112	794	540	356	317.6	168.3
1.65V	4241	2807	2089	1715	1091	780	530	349	311.9	165.3
1.70V	4163	2755	2051	1683	1071	765	520	343	306.1	162.2
1.75V	4084	2703	2012	1652	1051	751	511	336	300.3	159.2
1.80V	3927	2599	1935	1588	1011	722	491	323	288.8	153.0

**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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