

VRLA AGM SEALED LEAD ACID Battery

CS6-180

CSPower CS series AGM 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. The CSPower VRLA AGM battery uses a different chemistry for the plates active paste material, and a slightly stronger electrolyte than normal battery electrolyte, thus the CS range features higher cyclic life with 10 years of float life when compared to the standard Duration range.

6V Voltage	180Ah Capacity	AGM Technology	VRLA Battery
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COMPLIED STANDARDS



GENERAL FEATURES

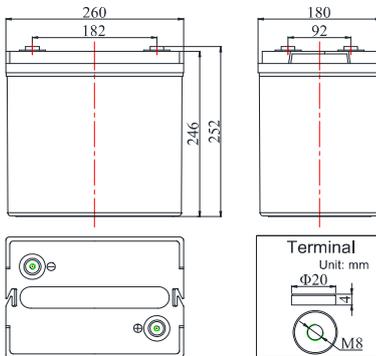
- 30% more cyclic life through innovation at the PAM additives
- Long life expectancy of 10 years in floating condition
- Thick flat plate with high Tin low Calcium alloy
- Excellent deep discharge recovery capability
- Deep cycle performance: up to 700 cycles @50% DOD

APPLICATIONS

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

DIMENSIONS & WEIGHT

Length(mm)	260±1
Width(mm)	180±1
Height(mm)	246±1
Total Height(mm)	252±1
Weight(kg)	27.5±3%



TECHNICAL SPECIFICATIONS

Nominal Voltage		6V(3 cells per unit)
Design Floating Life @25°C		10 Years
Nominal Capacity @25°C (10 hour rate@18.0A,5.4V)		180Ah
Capacity @25°C	20hour rate (9.99A,5.4V)	199.8Ah
	5 hour rate (32.9A,5.25V)	164.5Ah
	1 hour rate (119.8A,4.8V)	119.8Ah
Internal Resistance	Full Charged Battery@25°C	≤3.0mΩ
Ambient Temperature	Discharge	-15°C~45°C
	Charge	-15°C~45°C
	Storage	-15°C~45°C
Max.Discharge Current@25°C		540A(5s)
Capacity affected by Temperature (10 hour)	40°C	102%
	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 36A Voltage 6.8-6.9V
	Cycle Use	Initial Charging Current Less than 36A Voltage 7.2-7.45V

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	303.9	189.1	135.7	119.8	73.0	53.4	34.3	21.0	18.72	10.39
1.65V	291.2	184.0	132.0	116.5	71.6	52.4	33.9	20.8	18.54	10.29
1.70V	278.6	179.0	128.4	113.3	70.3	51.4	33.4	20.6	18.36	10.19
1.75V	265.9	173.9	124.8	110.1	68.6	50.2	32.9	20.4	18.18	10.09
1.80V	253.3	168.8	121.1	106.9	67.0	49.0	32.4	20.2	18.00	9.99

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

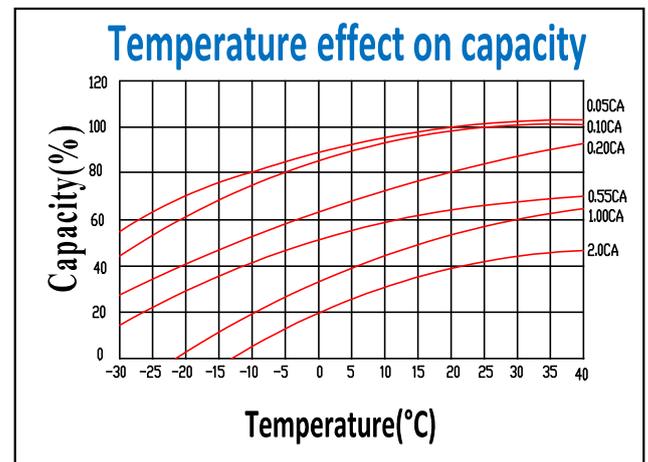
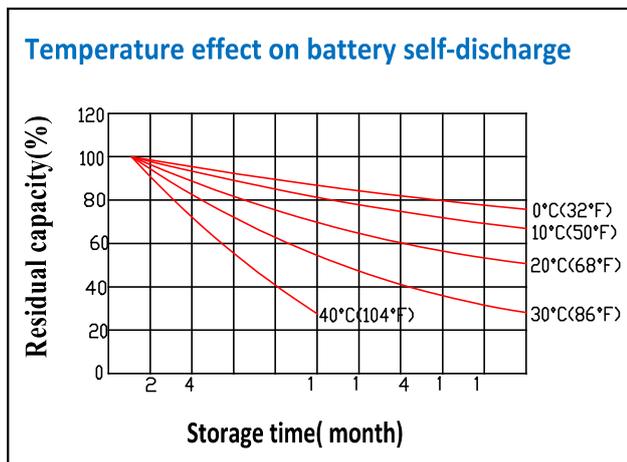
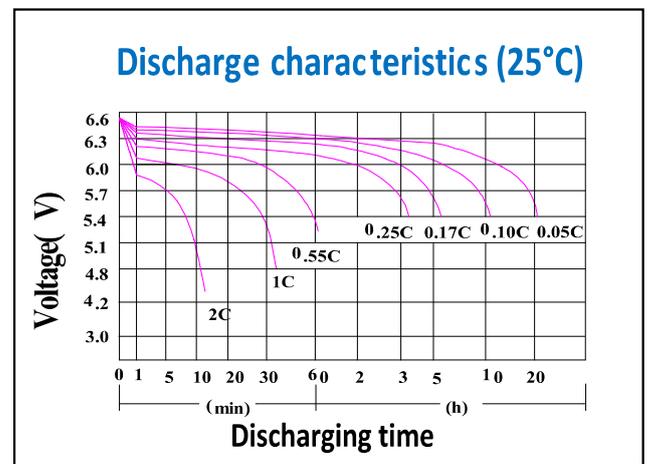
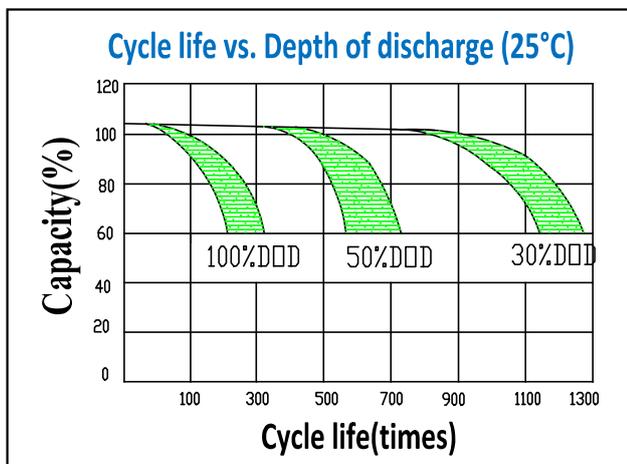
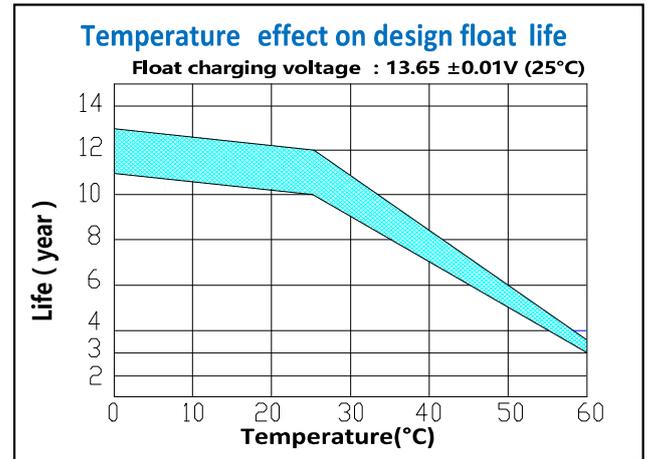
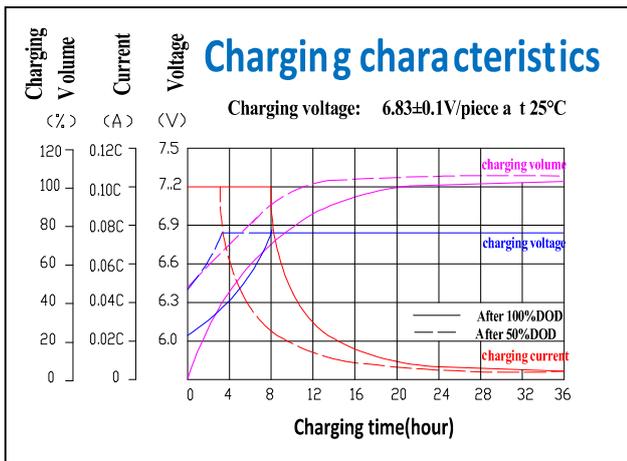
F.V/Time	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	566.8	352.7	253.0	223.3	136.1	99.5	64.1	39.1	34.9	19.4
1.65V	543.2	343.2	246.3	217.4	133.6	97.7	63.1	38.7	34.6	19.2
1.70V	519.6	333.8	239.5	211.4	131.1	95.9	62.2	38.4	34.2	19.0
1.75V	495.9	324.3	232.7	205.4	128.0	93.6	61.3	38.0	33.9	18.8
1.80V	472.3	314.9	225.9	199.4	124.9	91.3	60.4	37.6	33.6	18.6

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	ABS (UL94-V0)	Flame Si-Rubber and aging resistance	F1/F2	Advanced AGM separator for high pressure cell design	Dilute high purity sulfuric acid	Two layers epoxy resin seal