

Pump Backup Battery

VRLA AGM BATTERY CS SERIES

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, best partner for Pump backup use.



Features

- **Capacity range:**
Upto 12V250Ah
- **Low self-discharge rate:**
≤3% per month
- **Lifetime:**
8~10 years design life time in standby at 25 °C
- **Wide operation temperature range:**
-15 °C ~+40 °C
- **Long life performance:**
Upto 700 cycles@50% DOD
- **30% more cyclic life through innovation at the PAM additives**
- **Excellent deep discharge recovery capability**

• **Voltage:**
12V



Applications



Water pump/Sump pump Backup

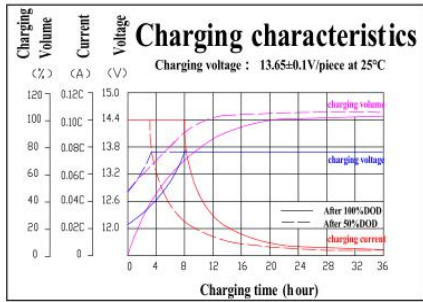


Specifications

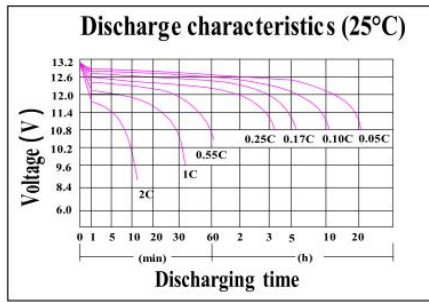
CSPower MODEL	Voltage	Capacity (Ah)	Battery Dimension (mm)				Weight (kg) (±3%)	Terminal	Bolt
	(V)		Length	Width	Height	Total Height			
<u>CS12-33</u>	12	33	196	130	155	167	10	T2	M6×16
<u>CS12-40</u>	12	40	198	166	172	172	12.3	T2	M6×16
<u>CS12-50</u>	12	50	229	138	208	212	15.5	T3	M6×16
<u>CS12-55</u>	12	55	229	138	208	212	16.2	T3	M6×16
<u>CS12-65</u>	12	65	350	167	178	178	20.5	T3	M6×16
<u>CS12-75</u>	12	75	260	169	211	215	22	T3	M6×16
<u>CS12-80</u>	12	80	260	169	211	215	23.5	T3	M8×16
<u>CS12-90</u>	12	90	331	174	214	219	25	T3	M6×16
<u>CS12-100</u>	12	100	307	169	211	216	26.5	T3	M6×16
<u>CS12-100A</u>	12	100	331	174	214	219	29	T4	M6×16
<u>CS12-120</u>	12	120	407	173	210	233	33	T5	M8×16
<u>CS12-120A</u>	12	120	407	173	210	233	34	T5	M8×16
<u>CS12-150A</u>	12	150	484	171	241	241	41	T4	M8×16
<u>CS12-150</u>	12	150	484	171	241	241	43.5	T4	M8×16
<u>CS12-200</u>	12	200	522	240	219	225	56	T5	M8×16
<u>CS12-200A</u>	12	200	522	240	219	225	58.2	T5	M8×16
<u>CS12-250</u>	12	250	520	268	220	225	70	T5	M8×16

CPOWER CHARACTERISTICS

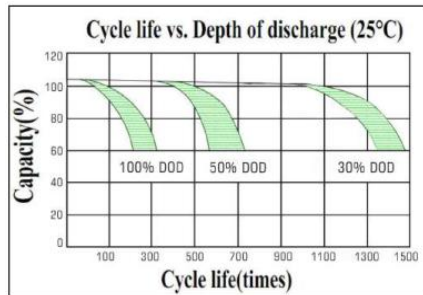
Charging Characteristics



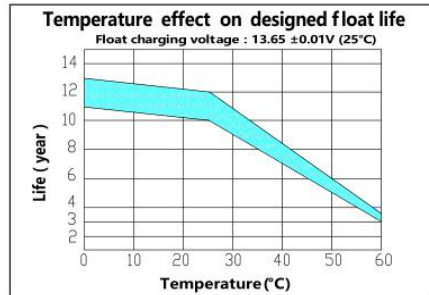
Discharging Characteristics(25°C)



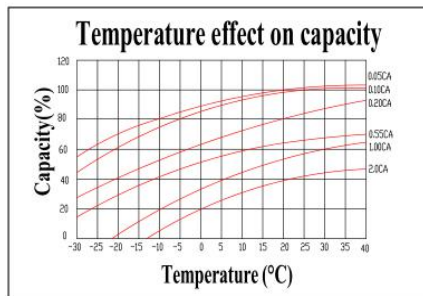
Cycle Life VS. Depth of Discharge(25°C)



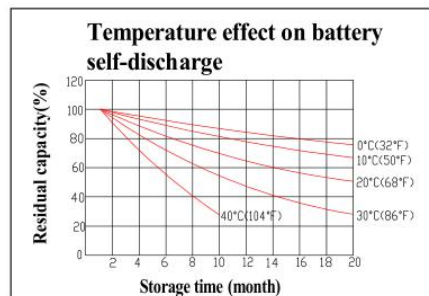
Temperature Effect on designed service Life



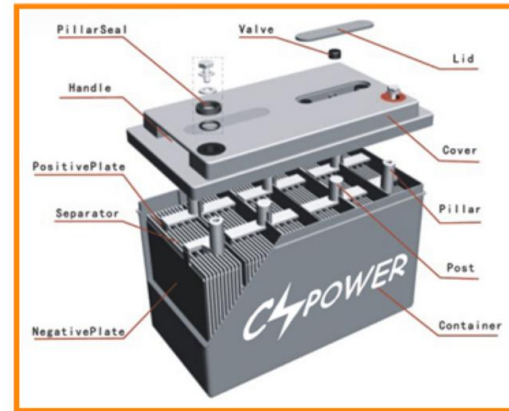
Temperature Effect on Capacity



Temperature Effect on battery self-discharge



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