

VRLA Battery Specification

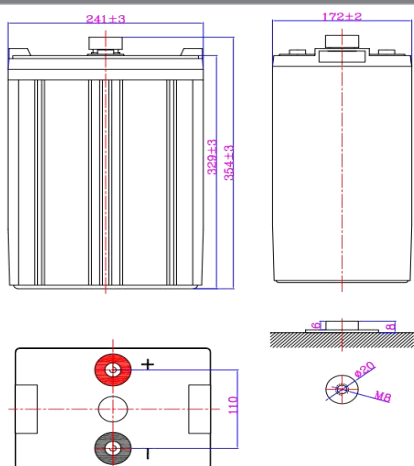
--2V Series



GFM-500 (2V500Ah)



Layout



Specifications

Nominal Voltage	2 V
Nominal Capacity(C10)	500Ah(1.8V/cell@25°C)
Dimensions	241*172*329/354(mm)
Approx .Weight	33.2kg ±3%
Internal Resistance	Approx.0.48mΩ@25°C
Terminal	Φ20* M8
Operating Temperature Range	Discharge: -20°C ~ 50°C (-4 ~ 104°F)
	Charge: -10°C ~ 40°C (-4 ~ 104°F)
	Storage: -20°C ~ 55°C (-4 ~ 122°F)
Nominal Operating Temperature Range	25±3°C (77±5°F)
Max. Charging Current	100.0A@25°C
Charging voltage(25°C)	Float: 2.25V±0.02V; 25°C
	Temp.Coefficient: ± 3mV/cell·°C
	Equalization: 2.40V±0.01V;
	Temp.Coefficient: ± 4mV/cell·°C
	Cycle: 2.40V±0.01V; 25°C
Effect of temperature to rated Capacity(C10)	Temp.Coefficient: ± -5mV/cell·°C
	40°C (104°F) 105%
	25°C (77°F) 100%
Self Discharge	0°C (32°F) 86%
	≤3%/month@ 25°C
Casing material	ABS(UL94 HB or V-0 optional)

Constant Current Discharge*(Amperes @25°C/77° F)

Time	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	825	675	450	300	175	129	100	84.2	61.9	51.9	27.3
1.70V	767	635	428	282	167	125	97.5	82.5	60.4	50.7	26.6
1.75V	734	613	417	275	163	122	96.0	81.8	60.0	50.4	26.4
1.80V	693	581	402	265	159	119	94.5	77.0	58.2	50.0	26.3
1.85V	652	533	383	250	155	113	91.7	75.5	53.7	46.0	24.2

Constant Power Discharge*(Watts/cell @25°C/77° F)

Time	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	1485	1174	842	570	340	253	195	160	120	103	54.5
1.70V	1388	1046	799	545	320	250	190	155	110	101	53.2
1.75V	1296	982	780	525	315	242	185	153	109	100	52.9
1.80V	1206	917	751	505	310	230	181	150	105	99.5	52.5
1.85V	1173	844	715	490	300	221	178	149	101	91.5	48.3



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General Features

- Designed lifespan of 15 years (25°C)
- ABS Casing
- High oxygen recombination efficiency
- Fully sealed and maintenance - free
- No flowing acid
- Low internal resistance and high power output
- Flexible installation in any direction

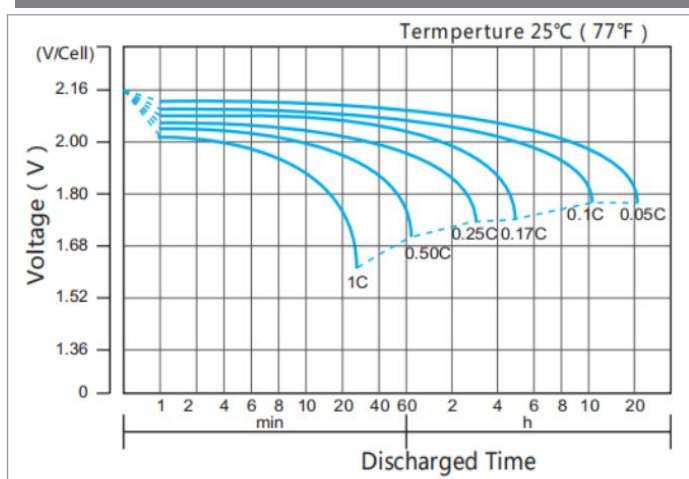
Applications

- UPS backup power systems
- Telecommunications systems
- Power systems such as power plants and substations
- Solar and wind energy storage and power supply systems
- Marine shipboard equipment

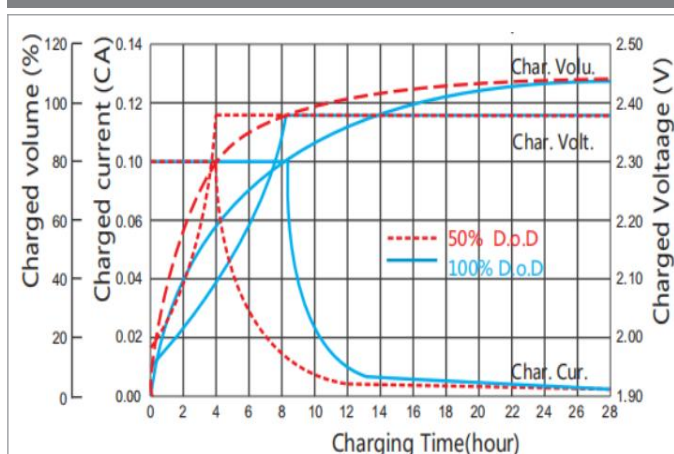
Standards

- Compliant with IEC60896, IEC61427, GB/T19638, YD/T1360-2015, YD/T799, DL/T637
- Certified for TLC, CE, RoHS and Reach compliance
- The company Aokly is certified under TS16949, OHSAS18001, SA8000, ISO9001, ISO14001, ISO45001 and ISO50001 management systems

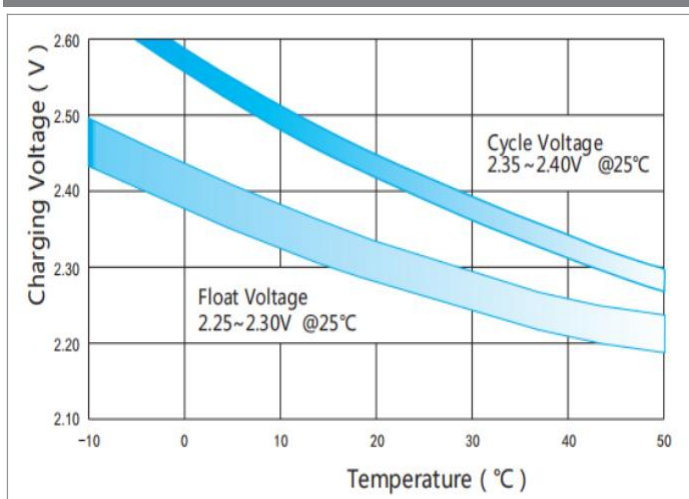
Discharge Characteristics (25°C)



Charging Characteristics (25°C)



Temperature vs Charging Voltage



Cycle Life on D.O.D (25°C)

