

VRLA Battery Specification

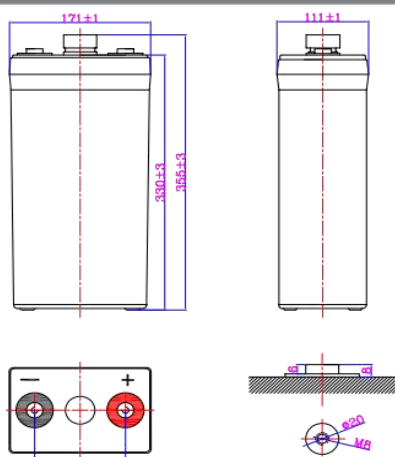
--2V Series



GFM-200 (2V200Ah)



Layout



Specifications

Nominal Voltage	2 V
Nominal Capacity(C10)	200Ah(1.8V/cell@25°C)
Dimensions	171*111*330/355(mm)
Approx .Weight	14.2kg ±3%
Internal Resistance	Approx.0.75mΩ@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	40.0A@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	330	270	180	120	70.0	51.6	40.0	33.7	23.2	22.0	11.4
1.70V	307	254	171	113	66.8	50.0	39.0	33.0	22.8	20.7	11.2
1.75V	294	245	167	110	65.2	48.8	38.4	32.7	22.5	20.4	11.0
1.80V	277	232	161	106	63.6	47.6	37.8	30.8	21.9	20.0	10.8
1.85V	261	213	153	100	62.0	45.1	36.7	30.2	21.3	18.4	9.66

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

Time	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	592	494	388	228	136	103	78.0	64.0	45.3	41.0	21.8
1.70V	549	464	355	219	128	101	76.0	62.0	44.2	40.0	21.4
1.75V	527	449	338	215	126	100	74.0	61.2	43.9	39.0	21.0
1.80V	499	425	321	208	124	97.0	72.4	60.0	42.6	38.4	20.8
1.85V	469	390	286	197	122	88.5	71.0	59.6	39.3	36.6	19.3



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GFM-200 (2V200Ah)

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

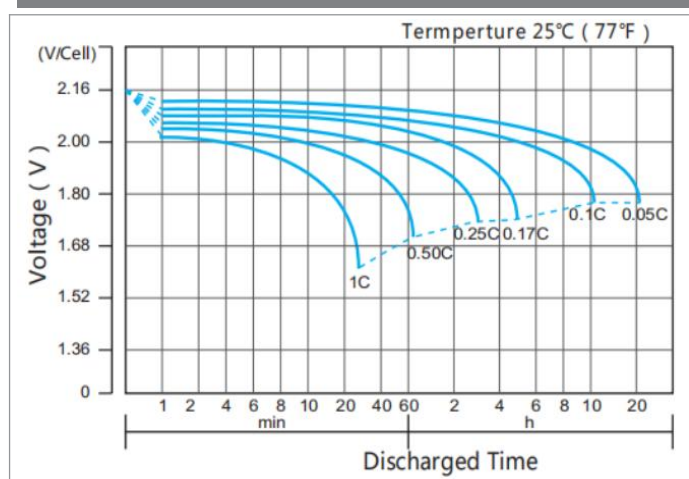
Applications

- 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

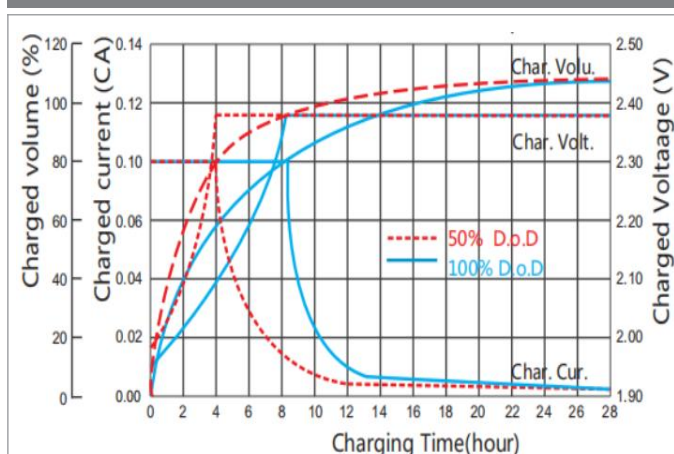
Standards

- 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

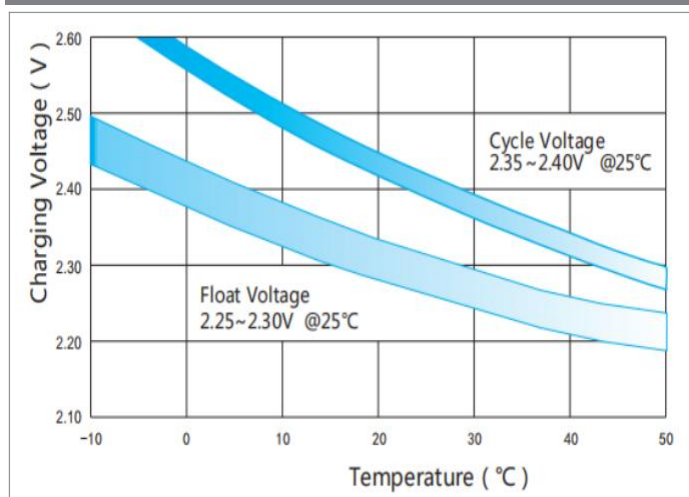
Discharge Characteristics (25°C)



Charging Characteristics (25°C)



Temperature vs Charging Voltage



Cycle Life on D.O.D (25°C)

