

VRLA Battery Specification

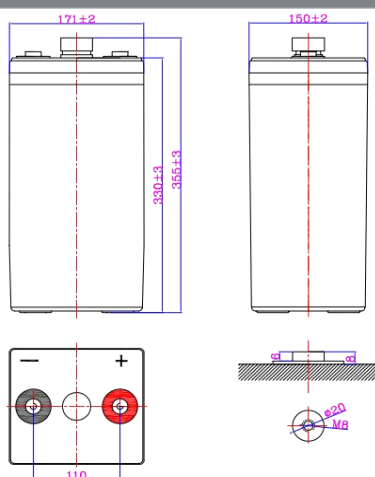
--2V Series



GFM-300 (2V300Ah)



Layout



Specifications

Nominal Voltage	2 V
Nominal Capacity(C10)	300Ah(1.8V/cell@25°C)
Dimensions	171*150*330/355(mm)
Approx .Weight	20.1kg ±3%
Internal Resistance	Approx.0.62mΩ@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	60.0A@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	495	405	270	180	105	77.4	60.0	50.5	34.7	33.0	16.4
1.70V	460	381	257	169	100	75.0	58.5	49.5	34.1	31.1	16.0
1.75V	441	368	250	165	97.8	73.2	57.6	49.1	33.8	30.6	15.9
1.80V	416	348	241	159	95.4	71.4	56.7	46.2	32.9	30.0	15.8
1.85V	391	320	230	150	93.0	68.0	55.0	45.3	32.0	28.3	14.5

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

Time	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	891	741	505	342	204	150	117	96.0	66.0	61.5	32.7
1.70V	795	697	480	328	192	144	114	93.0	66.0	58.5	31.9
1.75V	743	673	468	315	189	140	111	91.8	65.1	57.9	31.5
1.80V	690	637	451	303	186	138	109	90.0	63.0	57.1	31.2
1.85V	681	586	429	294	180	133	107	89.4	60.3	55.0	29.0



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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

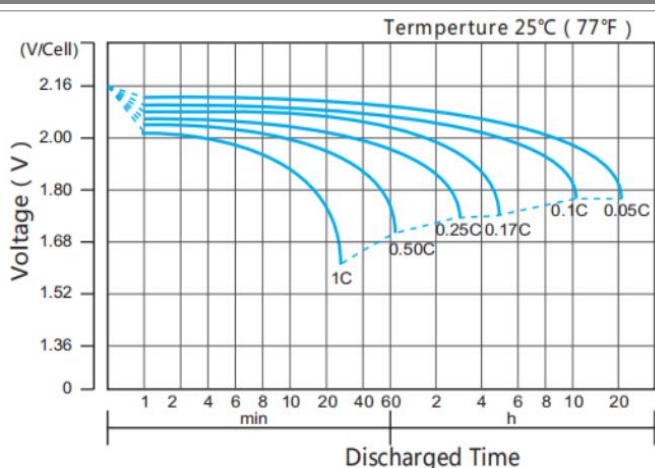
Applications

- 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

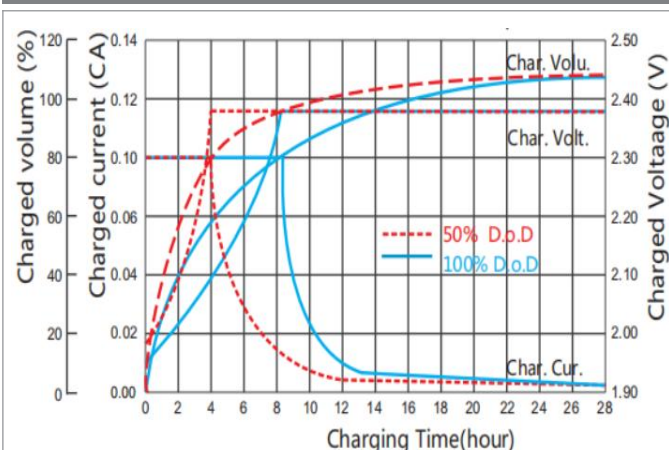
Standards

- 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

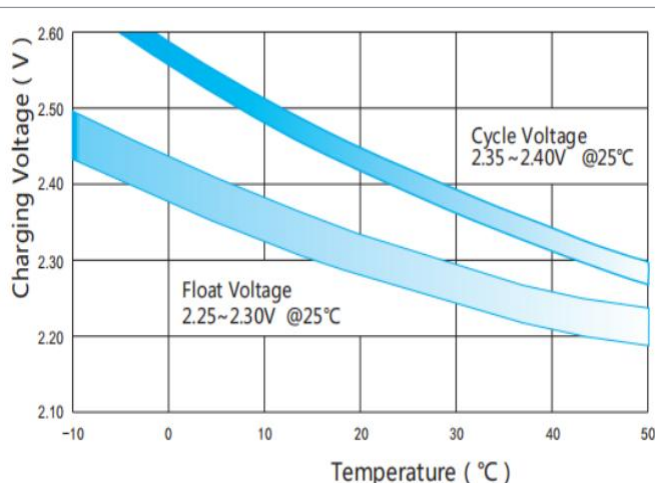
Discharge Characteristics (25°C)



Charging Characteristics (25°C)



Temperature vs Charging Voltage



Cycle Life on D.O.D (25°C)

