

VRLA Battery Specification

--2V Series



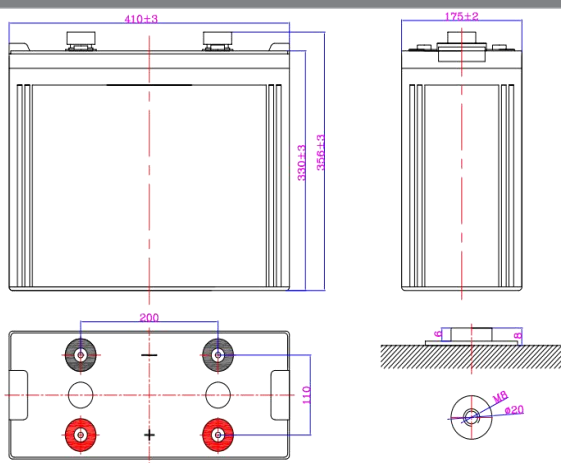
GFM-800 (2V800Ah)



Specifications

Nominal Voltage	2 V
Nominal Capacity(C10)	800Ah(1.8V/cell@25°C)
Dimensions	410*175*330/356(mm)
Approx .Weight	53.8kg ±3%
Internal Resistance	Approx.0.40mΩ@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	160.0A@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)

Layout



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

Time	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	1320	1080	720	480	280	206	160	135	92.7	83.0	43.6
1.70V	1228	1015	684	451	267	200	156	132.0	91.0	81.0	42.5
1.75V	1175	981	667	440	261	195	154	131.0	90.0	80.6	42.3
1.80V	1109	929	643	424	254	190	151	123.0	87.7	80.0	42.0
1.85V	1043	853	612	400	248	181	147	121.0	85.3	73.6	38.6

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

Time	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	2376	1976	1346	928	544	400	312	256	185	165	87.3
1.70V	2147	1804	1279	872	512	384	304	248	176	161	85.1
1.75V	2005	1692	1248	840	504	376	296	245	174	160	84.6
1.80V	1996	1580	1202	808	496	368	290	240	168	159	84.0
1.85V	1865	1561	1144	784	480	354	284	238	161	146	77.3



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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

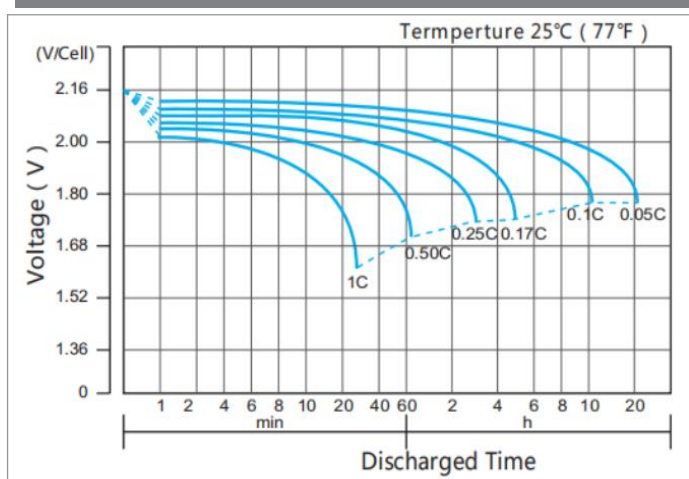
Applications

- 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

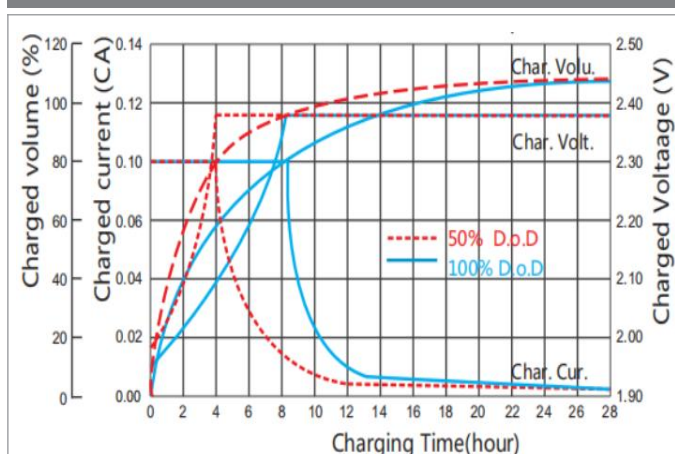
Standards

- 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

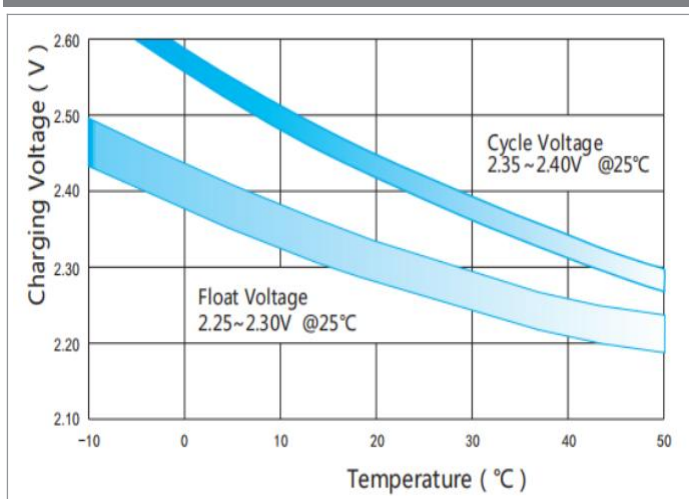
Discharge Characteristics (25°C)



Charging Characteristics (25°C)



Temperature vs Charging Voltage



Cycle Life on D.O.D (25°C)

