

VRLA Battery Specification

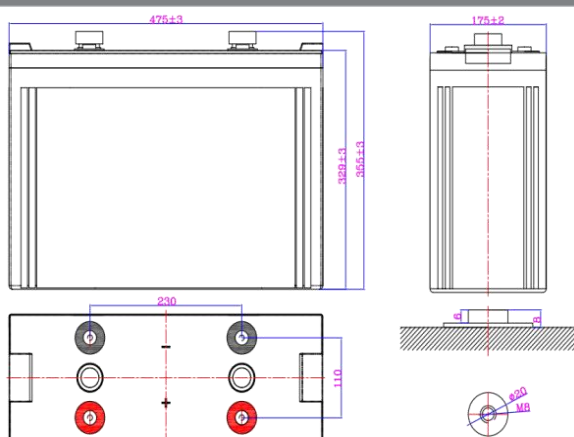
--2V Series



GFM-1000 (2V1000Ah)



Layout



Specifications

Nominal Voltage	2 V
Nominal Capacity(C10)	1000Ah(1.8V/cell@25°C)
Dimensions	475*175*329/355(mm)
Approx .Weight	65.1kg ±3%
Internal Resistance	Approx.0.38mΩ@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	200.0A@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	1650	1350	900	600	350	258	200	168	116	110	57.0
1.70V	1535	1269	855	576	334	250	195	165	114	104	56.0
1.75V	1469	1226	834	565	326	244	192	164	113	102	55.0
1.80V	1386	1161	804	547	318	238	189	154	110	100	54.0
1.85V	1304	1067	765	519	310	230	183	151	107	97.5	53.2

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

Time	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	2970	2471	1683	1140	680	500	390	320	220	207	109
1.70V	2762	2322	1599	1094	640	480	380	310	220	202	106
1.75V	2643	2243	1560	1073	630	470	370	306	217	200	106
1.80V	2495	2125	1503	1040	620	460	362	300	210	199	105
1.85V	2346	1952	1431	986	600	442	355	298	201	183	96.6



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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

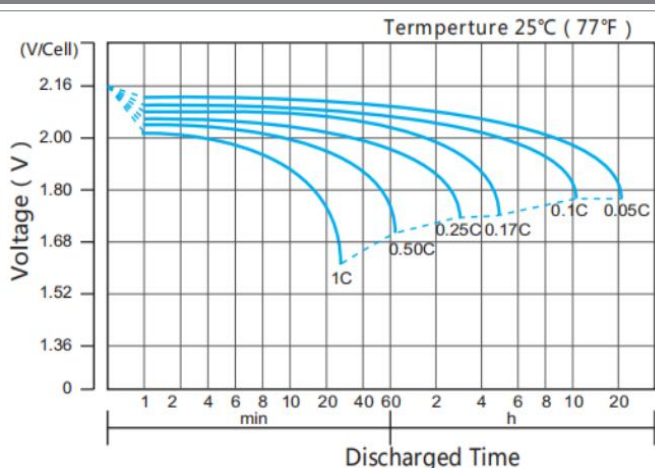
Applications

- 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

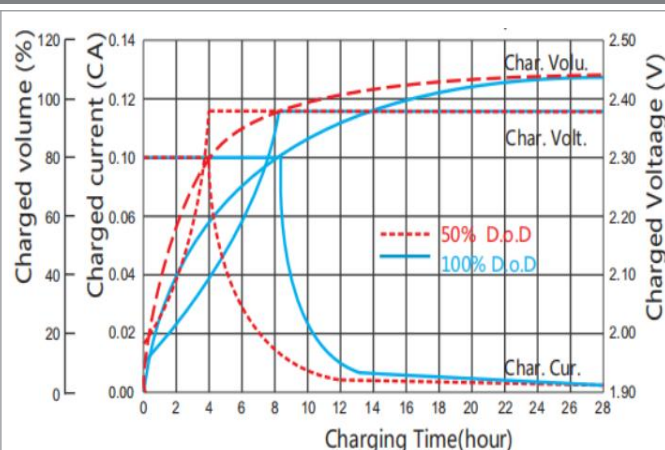
Standards

- 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

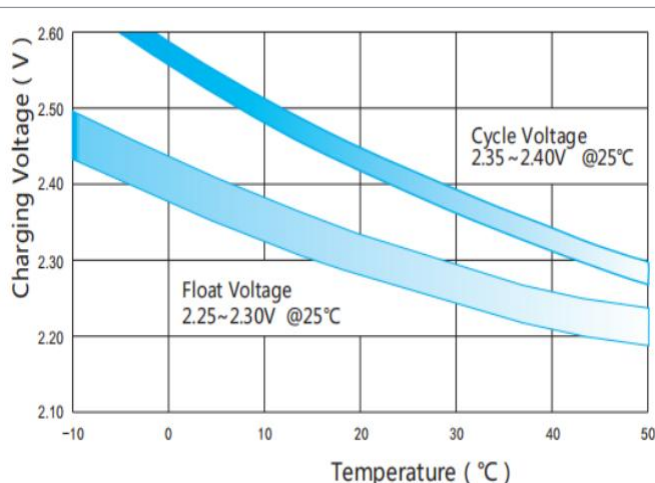
Discharge Characteristics (25°C)



Charging Characteristics (25°C)



Temperature vs Charging Voltage



Cycle Life on D.O.D (25°C)

