

VRLA Battery Specification

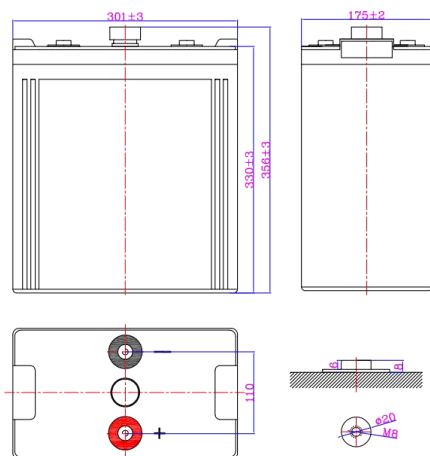
--2V Series



GFM-600 (2V600Ah)



Layout



Specifications

Nominal Voltage	2 V
Nominal Capacity(C10)	600Ah(1.8V/cell@25°C)
Dimensions	301*175*330/356(mm)
Approx .Weight	40.1kg ±3%
Internal Resistance	Approx.0.44mΩ@25°C
Terminal	Φ20* M8
Operating Temperature Range	Discharge: -20°C ~ 50°C
	Charge: -10°C ~ 50°C
	Storage: -20°C ~ 55°C
Nominal Operating Temperature Range	25±3°C
Max. Charging Current	120.0A@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 105%
	25°C 100%
Self Discharge	0°C 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	990	810	540	360	210	158	120	101	69.5	62.3	32.7
1.70V	921	761	513	346	200	155	117	99.0	68.3	60.8	31.9
1.75V	881	735	501	339	196	153	115	98.2	67.5	60.4	31.7
1.80V	832	697	482	328	191	148	113	92.4	65.7	60.0	31.5
1.85V	782	640	459	311	186	135	110	90.6	64.0	55.2	29.0

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

Time	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	1782	1482	1010	684	431	309	234	192	139	124	65.5
1.70V	1657	1393	959	657	417	303	228	186	132	121	63.8
1.75V	1586	1346	936	644	411	300	222	184	130	120	63.4
1.80V	1497	1275	902	624	400	291	217	180	126	119	63.0
1.85V	1408	1171	858	592	360	265	213	179	121	110	58.0



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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

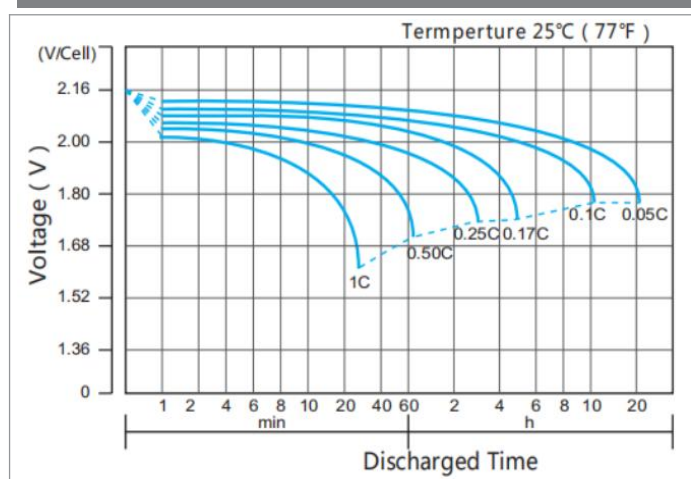
Applications

- 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

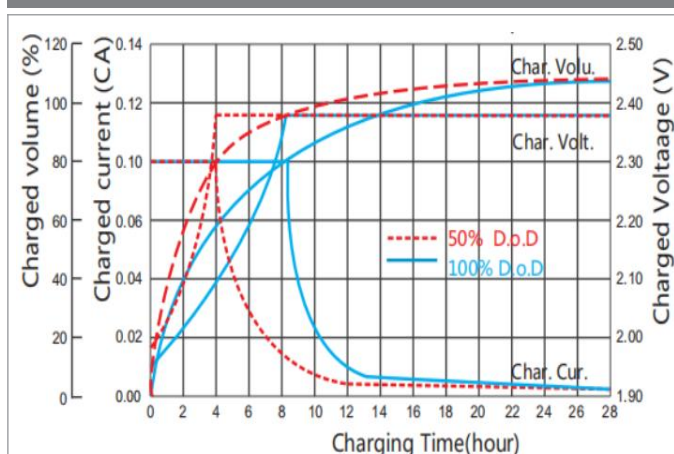
Standards

- 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

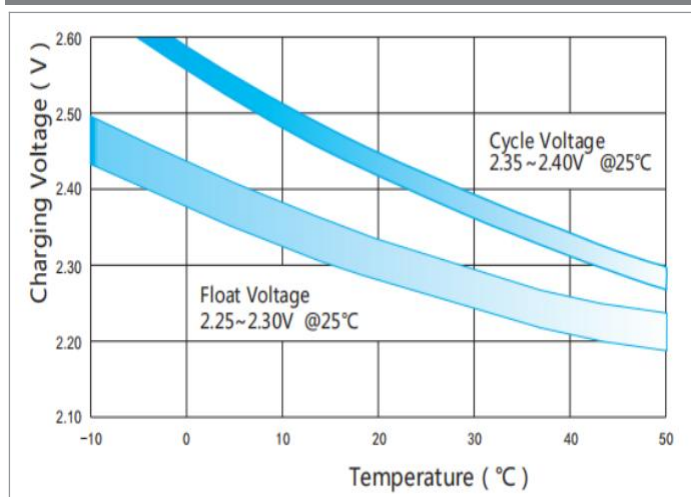
Discharge Characteristics (25°C)



Charging Characteristics (25°C)



Temperature vs Charging Voltage



Cycle Life on D.O.D (25°C)

