

VRLA Battery Specification

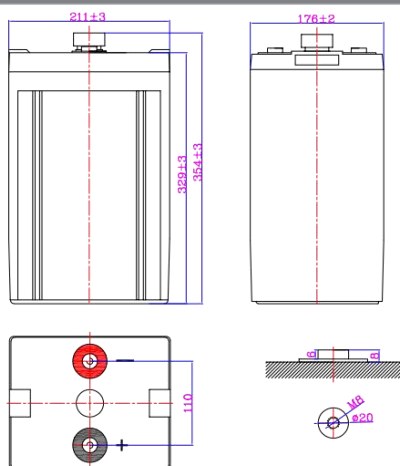
--2V Series



GFM-400 (2V400Ah)



Layout



Specifications

Nominal Voltage	2 V
Nominal Capacity(C10)	400Ah(1.8V/cell@25℃)
Dimensions	211*176*329/354(mm)
Approx .Weight	27.4kg ±3%
Internal Resistance	Approx.0.5mΩ@25℃
Terminal	Φ20* M8
Operating Temperature Range	Discharge: -20℃ ~ 50℃
	Charge: -10℃ ~ 50℃
	Storage: -20℃ ~ 55℃
Nominal Operating Temperature Range	25±3℃
Max. Charging Current	80.0A@25℃
Charging voltage(25℃)	Float: 2.25V±0.02V; 25℃
	Temp.Coefficient: ± 3mV/cell·℃
	Equalization: 2.40V±0.01V;
	Temp.Coefficient: ± 4mV/cell·℃
	Cycle: 2.40V±0.01V; 25℃
Effect of temperature to rated Capacity(C10)	Temp.Coefficient: ± -5mV/cell·℃
	40℃ 105%
	25℃ 100%
Self Discharge	0℃ 86%
	≤3%/month@ 25℃
Casing material	ABS(UL94 HB or V-0 optional)

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

Time	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	660	540	360	240	140	103	80.0	63.2	46.3	41.5	21.8
1.70V	614	508	342	226	134	100	78.0	61.9	45.5	40.5	21.3
1.75V	587	490	334	220	130	97.6	76.8	61.2	45.0	40.3	21.1
1.80V	554	464	321	212	127	95.2	75.6	59.4	43.8	40.0	21.0
1.85V	521	427	306	200	124	90.3	73.3	54.8	42.7	36.8	19.3

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

Time	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	1188	988	673	456	272	200	156	128	88.0	82.0	43.6
1.70V	1105	929	640	438	256	192	152	124	87.0	80.6	42.5
1.75V	1057	897	624	429	252	188	148	122	86.8	80.2	42.3
1.80V	998	850	601	416	248	184	145	120	84.0	79.6	42.0
1.85V	939	781	572	394	240	177	142	119	80.4	73.2	38.6



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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

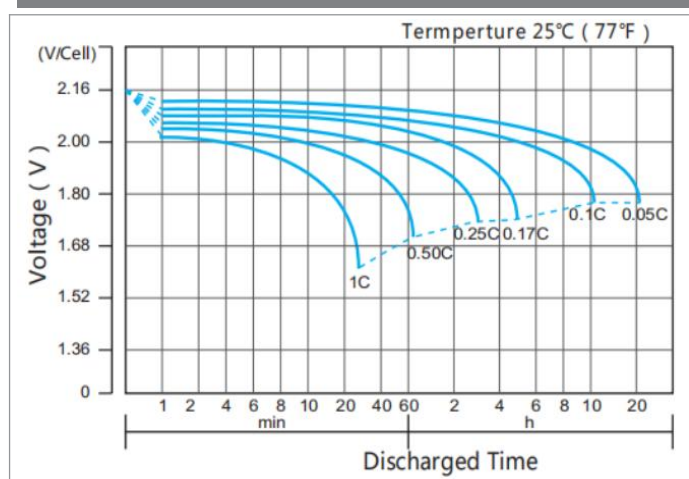
Applications

- 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

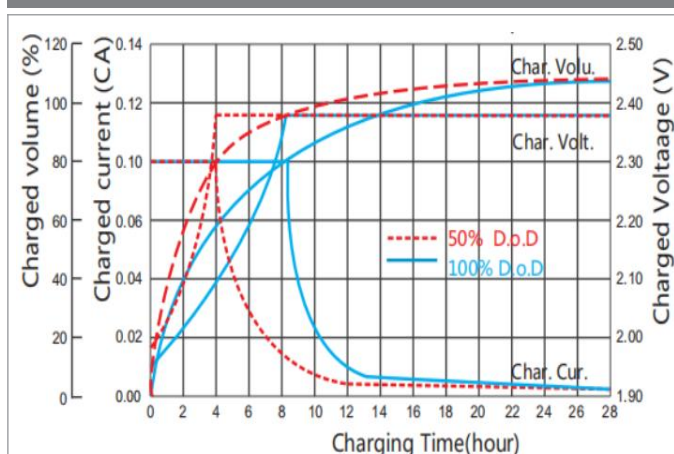
Standards

- 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

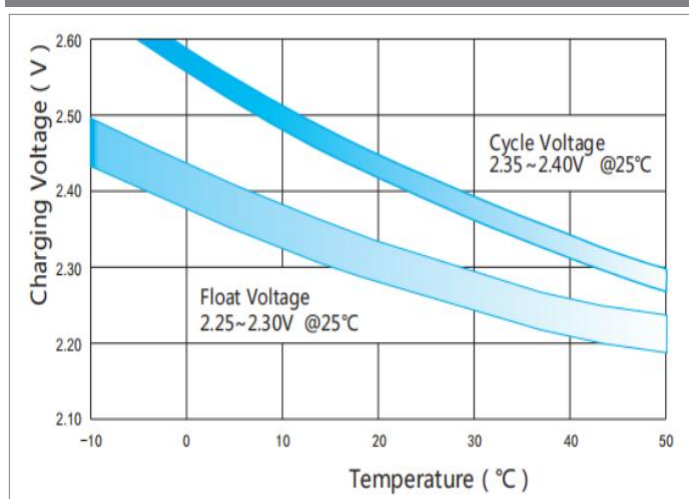
Discharge Characteristics (25°C)



Charging Characteristics (25°C)



Temperature vs Charging Voltage



Cycle Life on D.O.D (25°C)

