

VRLA Battery Specification

---12V Series



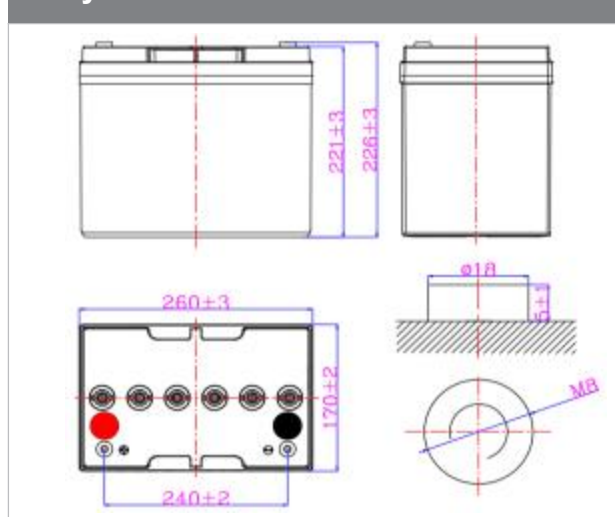
6-GFM-70 (12V70Ah)



Specifications

Nominal Voltage	12 V
Nominal Capacity(C10)	70Ah(1.8V/cell@25°C)
Dimensions	260*170*221/226(mm)
Approx .Weight	21.4kg ±3%
Internal Resistance	Approx.6.8mΩ@25°C
Terminal	Φ18* M8
Operating Temperature Range	Discharge: -20°C ~ 55°C (-4 ~ 104°F)
	Charge: 0°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	17.5A @25°C
Charging voltage(25°C)	Float: 2 .25V ~ 2 .30V/cell
	Temp.Coefficient: -3mV/°C
	Equalization: 2 .40V ~ 2 .45V/cell
	Temp.Coefficient: -4mV/°C
	Cycle: 2 .40V~2 .45V/cell
Effect of temperature to rated Capacity(C10)	Temp.Coefficient: -5mV/°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	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
9.60V	203	143	124	78.2	46.8	27.8	19.7	15.2	13.7	8.81	7.42	4.09
10.20V	189	130	115	73.8	45.0	26.7	19.0	14.7	13.2	8.52	7.21	4.00
10.50V	181	122	109	70.8	43.2	25.6	18.2	14.3	12.9	8.40	7.10	3.94
10.80V	170	113	102	66.4	40.9	24.5	17.5	14.0	12.6	8.23	7.00	3.90
11.10V	154	103	92.0	59.0	36.0	21.6	15.6	13.0	11.7	7.70	6.58	3.71

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

Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
9.60V	2130	1500	1364	876	529	314	223	178	160	104	87.2	48.3
10.20V	1941	1430	1316	849	517	307	218	172	154	100	84.7	47.2
10.50V	1858	1366	1221	818	501	297	209	168	152	99.1	83.8	46.7
10.80V	1753	1288	1178	773	478	286	205	165	148	97.1	82.6	46.4
11.10V	1587	1195	1076	696	425	255	191	153	138	91.2	78.0	44.3



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General Features

- 10 years design life
- Very low Self-discharge rate
- Wide range of operating temperature
- 100% Sealed and maintenance free
- Good conductivity
- Excellent charge acceptance
- Safe and reliable explosion-proof regulating valve

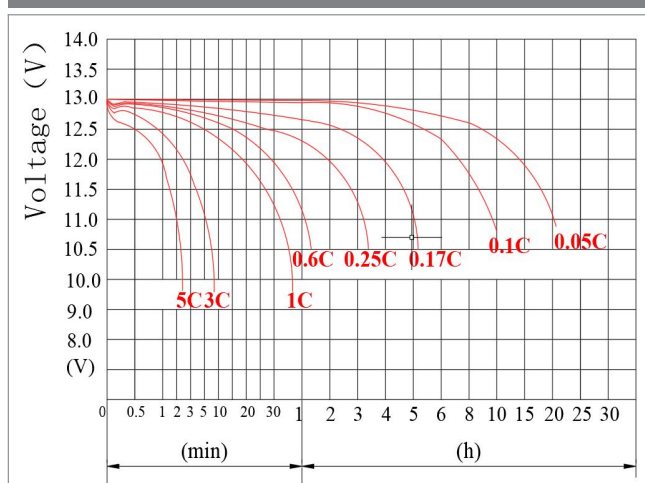
Applications

- Telecommunications
- UPS、Data Center
- Energy Storage, Electric Systems
- Emergency Lighting, Security
- Medical, Electronic Equipment
- Motive Power

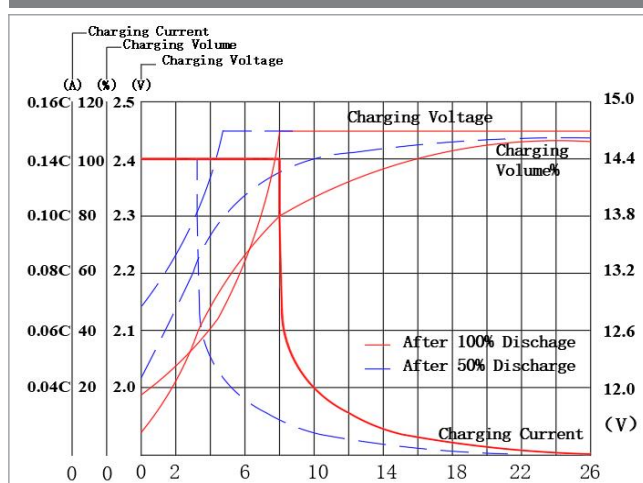
Standards

- 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

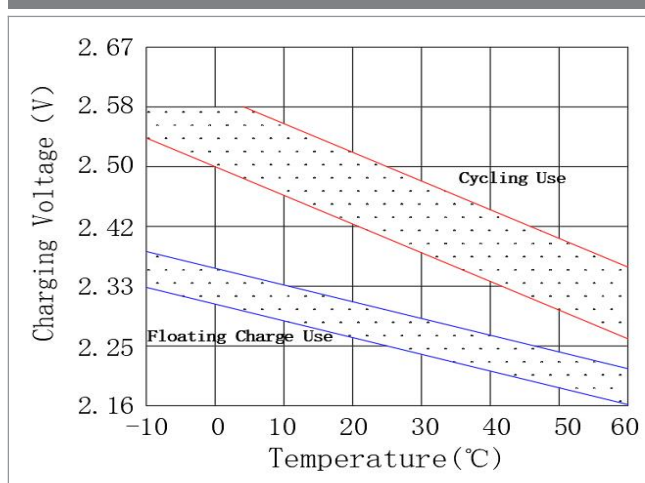
Discharge Characteristics(25°C)



Charging Characteristics(25°C)



Rel. The between Temp. and Charging Volt.



Capacity Retention Characteristics

