

VRLA Battery Specification

---12V Series



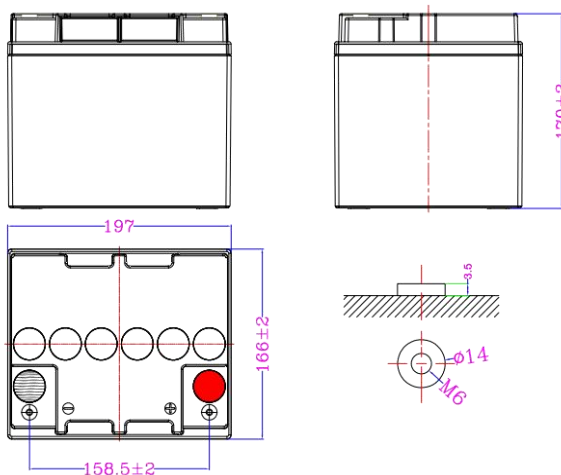
6-GFM-38 (12V38Ah)



Specifications

Nominal Voltage	12 V	
Nominal Capacity(C10)	38Ah(1.8V/cell@25°C)	
Dimensions	197*166*170/170(mm)	
Approx .Weight	12.0kg ±3%	
Internal Resistance	Approx.10.0mΩ@25°C	
Terminal	Φ14* M6	
Operating Temperature Range	Discharge: -20℃ ~ 55℃ (-4 ~ 104°F)	
	Charge: 0℃~ 40℃ (-4 ~ 104°F)	
	Storage: -20℃ ~ 55℃ (-4 ~ 122°F)	
Nominal Operating Temperature Range	25±3℃ (77±5°F)	
Max. Charging Current	9.5A @25°C	
Charging voltage(25°C)	Float: 2 .25V ~ 2 .30V/cell	
	Temp.Coefficient: -3mV/℃	
	Equalization: 2 .40V ~ 2 .45V/cell	
	Temp.Coefficient: -4mV/℃	
	Cycle: 2 .40V~2 .45V/cell	
	Temp.Coefficient: -5mV/℃	
Effect of temperature to rated Capacity(C10)	40℃ (104°F)	105%
	25℃ (77°F)	100%
	0℃ (32°F)	86%
Self Discharge	≤3%/month@ 25℃	
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	114	86.7	73.0	47.3	28.3	16.2	11.3	8.69	7.11	4.69	4.03	2.20
10.20V	88.5	78.9	67.6	44.6	27.2	15.6	10.9	8.36	6.84	4.60	3.91	2.15
10.50V	83.2	74.2	64.2	42.8	26.4	15.2	10.7	8.20	6.70	4.51	3.86	2.12
10.80V	76.9	68.6	60.2	40.1	24.7	14.3	10.0	7.69	6.45	4.24	3.80	2.10
11.10V	69.9	62.3	54.0	35.7	21.8	12.6	8.90	6.94	6.12	4.06	3.57	1.99

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

Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
9.60V	1158	910	803	530	320	183	128	98.2	81.4	53.7	46.1	25.5
10.20V	963	868	774	513	313	179	125	96.1	79.0	53.1	45.2	25.4
10.50V	906	831	738	494	306	176	122	95.1	78.4	52.8	44.3	25.1
10.80V	838	782	695	467	289	167	117	90.0	76.2	50.0	43.4	25.0
11.10V	787	723	633	421	257	149	105	81.9	71.3	48.1	42.3	23.9



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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

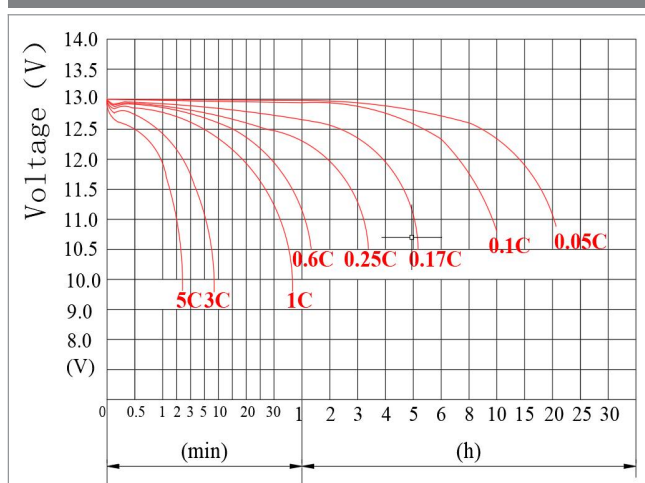
Applications

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

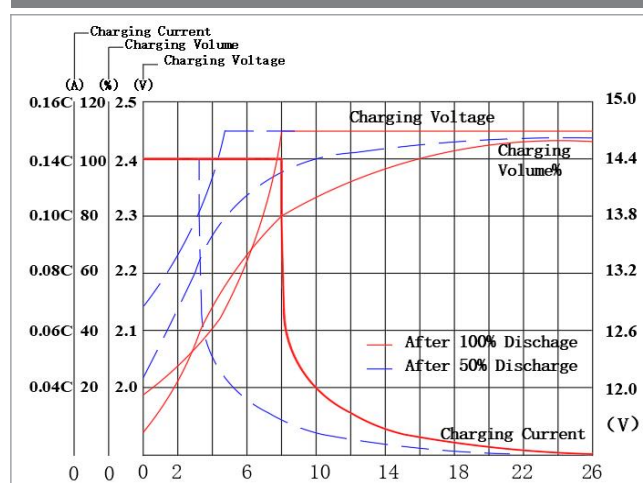
Standards

- 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

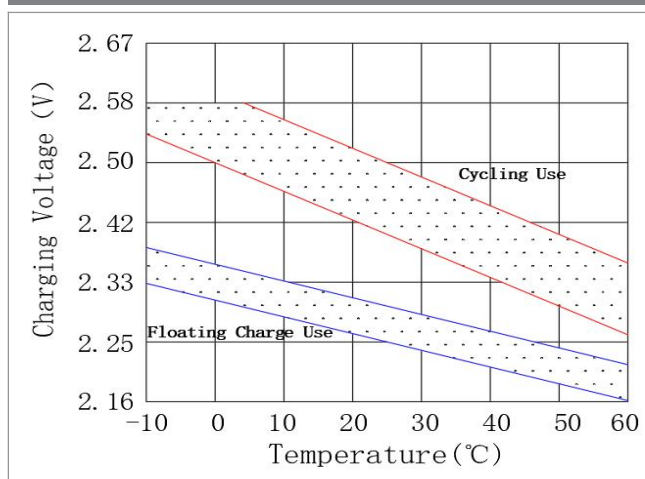
Discharge Characteristics(25°C)



Charging Characteristics(25°C)



Rel. The between Temp. and Charging Volt.



Capacity Retention Characteristics

