

VRLA Battery Specification

---12V Series



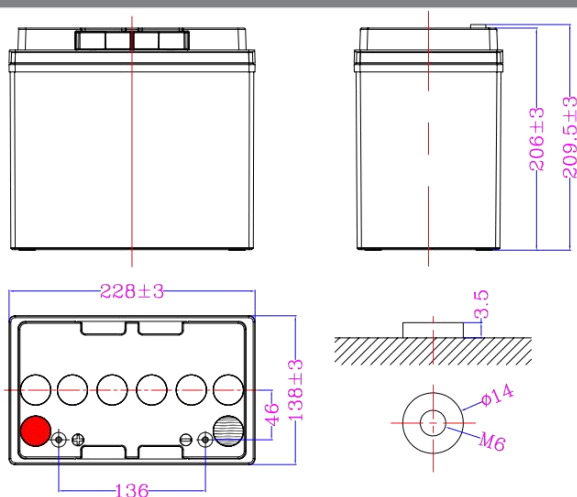
6-GFM-55 (12V55Ah)



Specifications

Nominal Voltage	12 V	
Nominal Capacity(C10)	55Ah(1.8V/cell@25℃)	
Dimensions	228*138*206/209.5(mm)	
Approx .Weight	15.8kg ±3%	
Internal Resistance	Approx.7.5mΩ@25℃	
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	13.75A @25℃	
Charging voltage(25℃)	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	159	119	100	65.2	39.0	23.4	16.4	12.6	10.3	6.79	5.72	3.02
10.20V	148	108	93.1	61.5	37.5	22.5	15.8	12.1	9.90	6.66	5.66	2.95
10.50V	142	101	88.4	58.4	36.0	21.6	15.2	11.6	9.50	6.53	5.61	2.91
10.80V	134	94.0	82.8	54.7	34.1	20.7	14.5	11.1	9.10	6.26	5.50	2.88
11.10V	121	85.3	74.5	49.2	30.0	18.2	12.8	10.0	8.20	6.00	5.28	2.74

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

Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
9.60V	1674	1250	1100	730	440	264	185	142	118	81.2	68.5	35.6
10.20V	1556	1188	1066	707	431	259	182	139	116	78.5	66.5	34.8
10.50V	1489	1131	1017	675	417	250	178	135	114	77.7	65.8	34.5
10.80V	1406	1072	956	637	399	242	170	130	111	76.2	64.9	34.3
11.10V	1272	990	871	580	354	215	151	120	103	71.6	61.3	32.7



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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

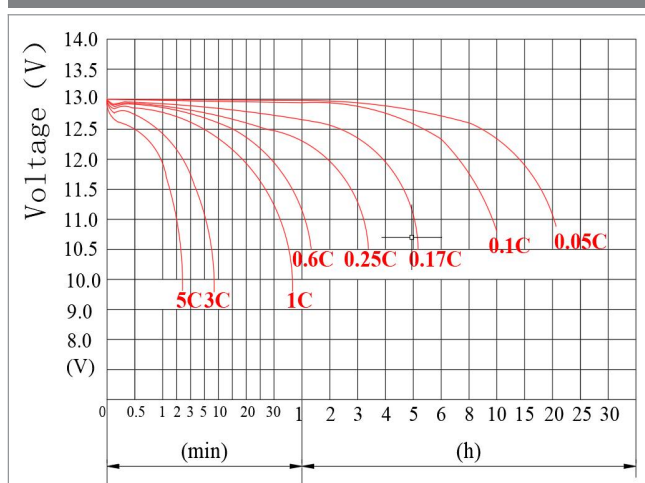
Applications

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

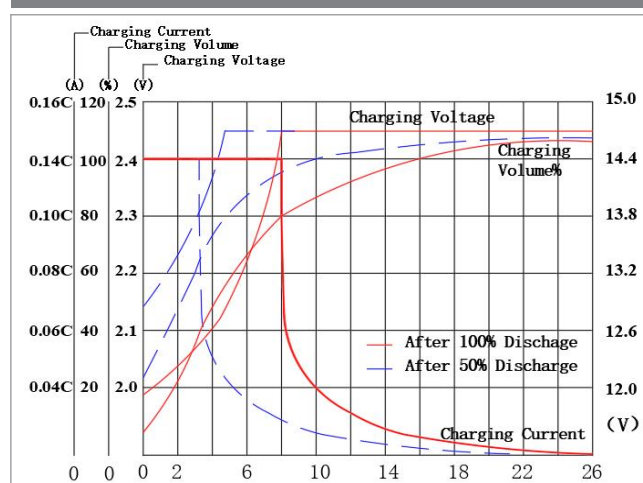
Standards

- 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

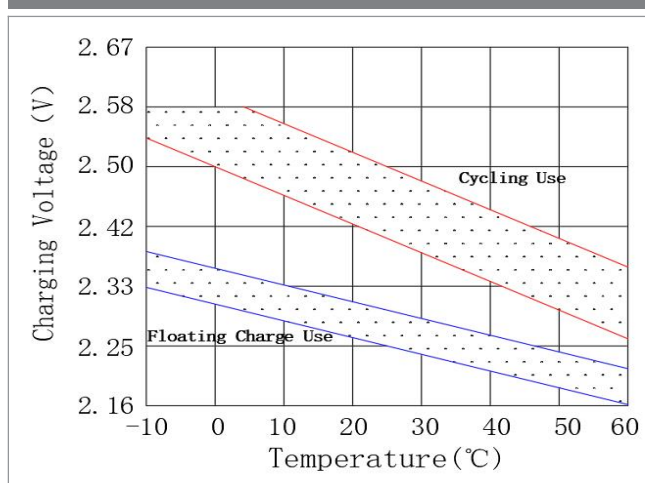
Discharge Characteristics(25°C)



Charging Characteristics(25°C)



Rel. The between Temp. and Charging Volt.



Capacity Retention Characteristics

