

VRLA Battery Specification

---12V Series



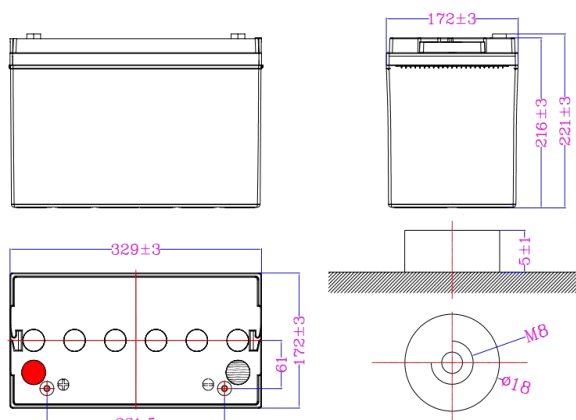
6-GFM-100 (12V100Ah)



Specifications

Nominal Voltage	12 V	
Nominal Capacity(C10)	100Ah(1.8V/cell@25°C)	
Dimensions	329*172*216/221(mm)	
Approx .Weight	29.0kg ±3%	
Internal Resistance	Approx.5.5mΩ@25°C	
Terminal	Φ18* M8	
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	25.0A @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	
	Temp.Coefficient: -5mV/°C	
Effect of temperature to rated Capacity(C10)	40℃ (104°F)	105%
	25℃ (77°F)	100%
	0℃ (32°F)	86%
Self Discharge	≤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	260	223	188	107	64.1	37.5	29.8	22.9	18.5	12.5	10.6	5.56
10.20V	240	203	174	104	63.0	36.9	28.7	22.0	17.8	12.1	10.3	5.43
10.50V	225	191	165	98.9	60.4	36.1	28.1	21.6	17.4	11.9	10.2	5.35
10.80V	209	177	155	94.8	58.6	34.7	26.4	20.2	17.0	11.7	10.0	5.30
11.10V	189	160	139	91.1	55.4	33.3	23.8	18.5	15.8	10.9	9.40	5.03

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

Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
9.60V	2830	2231	1895	1270	741	428	320	259	209	147	124	65.6
10.20V	2608	2107	1790	1190	716	420	310	253	205	142	121	65.1
10.50V	2454	1878	1569	1168	702	415	306	250	202	140	120	63.4
10.80V	2274	1770	1458	1116	639	410	300	236	199	138	118	63.1
11.10V	2055	1661	1336	1063	580	388	281	220	187	129	111	60.1



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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

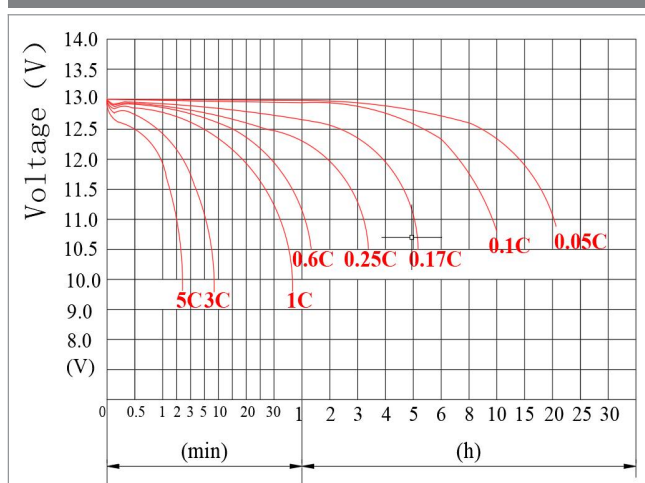
Applications

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

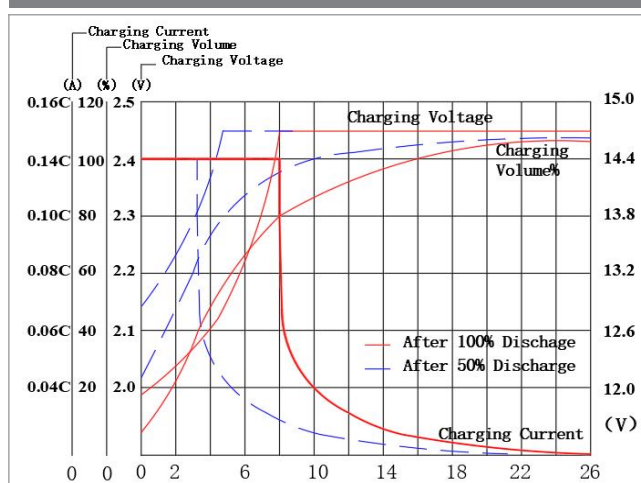
Standards

- 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

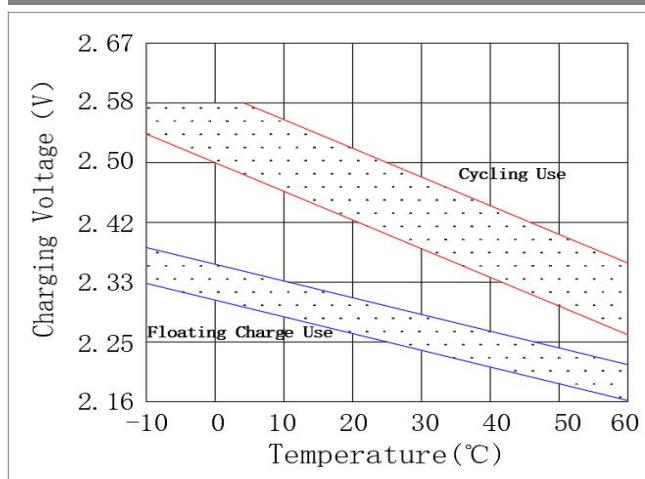
Discharge Characteristics(25°C)



Charging Characteristics(25°C)



Rel.The between Temp. and Charging Volt.



Capacity Retention Characteristics

