

VRLA Battery Specification

---12V Series



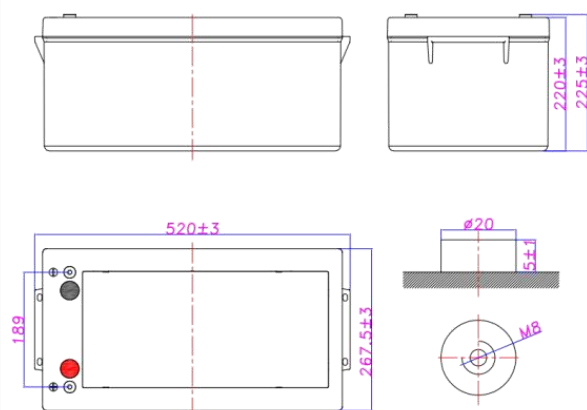
6-GFM-250 (12V250Ah)



Specifications

Nominal Voltage	12 V	
Nominal Capacity(C10)	250Ah(1.8V/cell@25℃)	
Dimensions	520*267.5*220/225(mm)	
Approx .Weight	69.5kg ±3%	
Internal Resistance	Approx.2.4mΩ@25℃	
Terminal	Φ20* 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	62.5A @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	599	456	391	261	149	89.5	65.8	54.5	47.1	31.5	27.1	14.1
10.20V	557	435	375	249	142	85.0	64.0	52.5	45.1	30.3	25.7	13.5
10.50V	533	389	356	233	136	82.4	62.1	50.7	44.1	29.8	25.4	13.3
10.80V	503	366	334	215	129	80.7	60.8	50.0	43.0	29.4	25.0	13.2
11.10V	455	343	300	192	116	74.8	56.3	46.5	40.0	27.6	23.5	12.8

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

Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
9.60V	6844	4993	4345	2743	1680	1011	761	628	542	368	315	166
10.20V	6364	4761	4104	2590	1587	974	719	593	512	347	298	157
10.50V	6091	4257	3896	2523	1489	945	698	572	500	342	294	155
10.80V	5748	4006	3655	2335	1441	924	683	564	488	337	289	154
11.10V	5201	3754	3283	2101	1296	857	632	525	454	316	272	145



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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

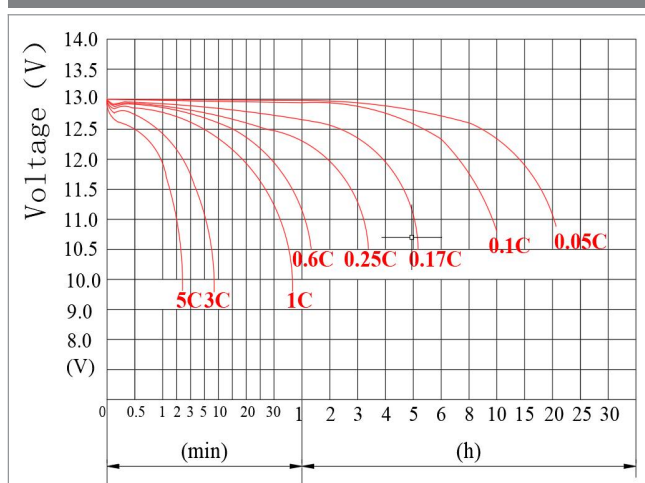
Applications

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

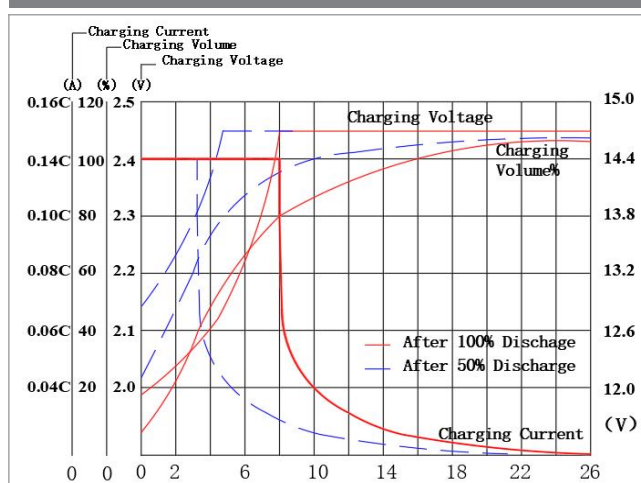
Standards

- 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

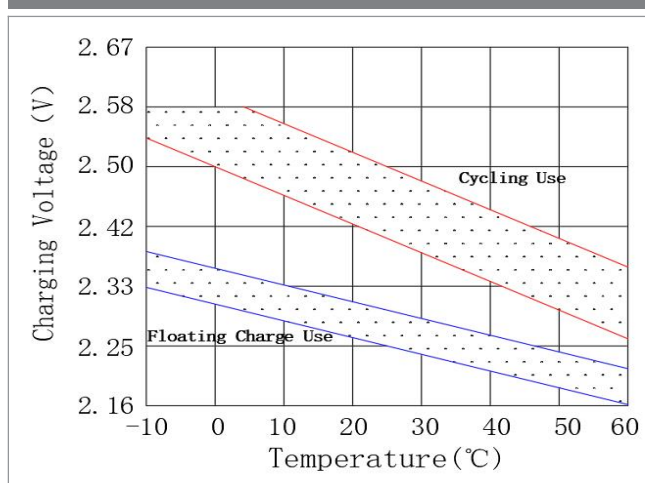
Discharge Characteristics(25°C)



Charging Characteristics(25°C)



Rel. The between Temp. and Charging Volt.



Capacity Retention Characteristics

