

VRLA Battery Specification

---12V Series



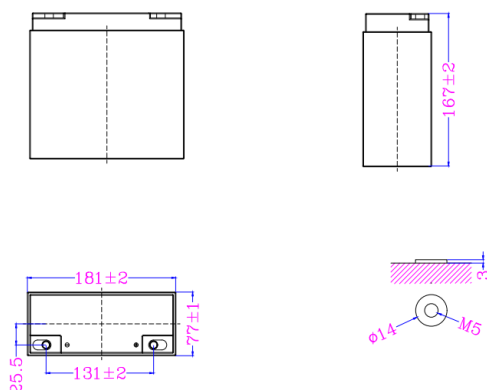
6-FM-20(12V20Ah)



Specifications

Nominal Voltage	12 V	
Nominal Capacity(C20)	20Ah(1.75V/cell@25°C)	
Dimensions	181*77*167*167mm	
Approx .Weight	5.3kg (1±3%)	
Internal Resistance	Approx.13mΩ@25°C	
Terminal	F3、 F13	
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	6.0A @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(C20)	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	76.0	48.0	38.0	21.2	13.0	7.20	5.16	4.11	3.51	2.26	1.91	1.027
10.20V	68.6	43.4	32.8	18.8	11.9	7.00	5.04	4.03	3.42	2.22	1.87	1.006
10.50V	66.0	41.7	31.1	18.4	11.5	6.90	5.00	4.00	3.40	2.20	1.86	1.000
10.80V	63.8	40.0	29.9	17.2	10.9	6.72	4.85	3.88	3.30	2.13	1.82	0.980
11.10V	57.8	36.5	28.5	16.6	10.5	6.44	4.60	3.68	3.13	2.02	1.75	0.940

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

Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
9.60V	141	90	72.2	40.5	25.1	14.0	10.2	8.16	6.98	4.53	3.81	2.05
10.20V	128	82	62.4	35.8	23.0	13.7	10.0	8.00	6.81	4.43	3.74	2.01
10.50V	123	78.4	59.1	35.1	22.1	13.4	9.9	7.94	6.77	4.40	3.72	2.00
10.80V	119	75.3	56.7	32.9	21.1	13.1	9.6	7.70	6.56	4.27	3.65	1.96
11.10V	107	68.6	54.1	31.7	20.2	12.6	9.1	7.30	6.22	4.05	3.50	1.88



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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

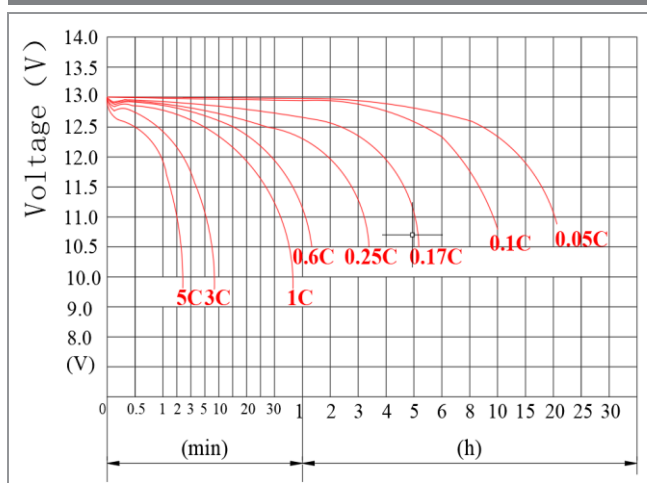
Applications

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

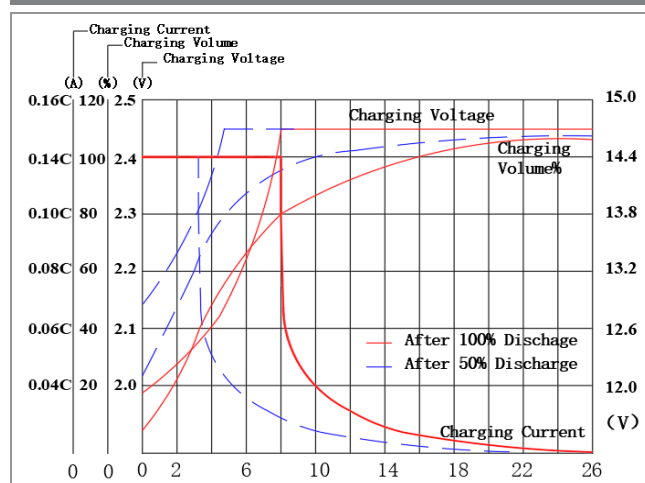
Standards

- 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

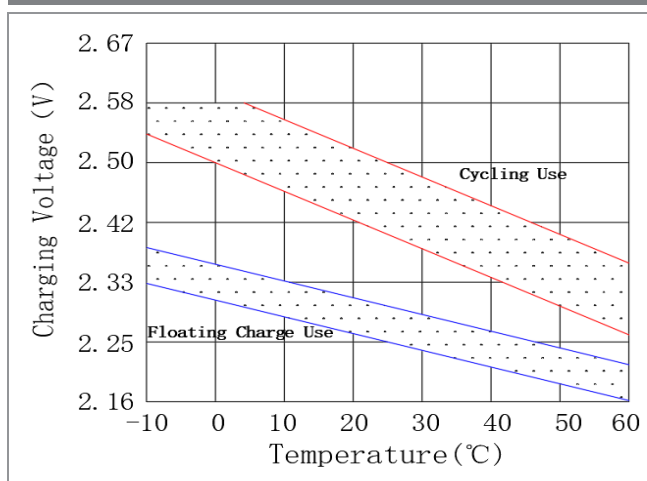
Discharge Characteristics(25°C)



Charging Characteristics(25°C)



Rel. The between Temp. and Charging Volt.



Capacity Retention Characteristics

