

VRLA Battery Specification

---12V Series



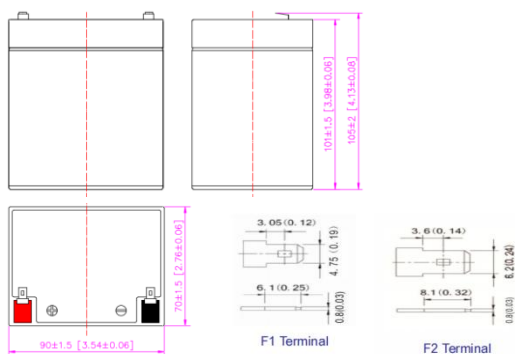
6-FM-5 (12V5Ah)



Specifications

Nominal Voltage	12 V
Nominal Capacity(C20)	5Ah(1.75V/cell@25°C)
Dimensions	90*70*100*106mm
Approx .Weight	1.48 kg (1±3%)
Internal Resistance	Approx.40mΩ@25°C
Terminal	F1、F2
Operating Temperature Range	Discharge: -20°C ~ 55°C (-4 ~ 104°F)
	Charge: 0°C ~ 40°C (-4 ~ 104°F)
	Storage : -20°C ~ 55°C (-4 ~ 122°F)
Nominal Operating Temperature Range	25±3°C (77±5°F)
Max. Charging Current	1.5A @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
Effect of temperature to rated Capacity(C20)	Temp.Coefficient : -5mV/°C
	40°C (104°F) 105%
	25°C (77°F) 100%
Self Discharge	0°C (32°F) 86%
	≤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	19.0	12.0	9.5	5.3	3.3	1.80	1.29	1.03	0.88	0.57	0.48	0.257
10.20V	17.2	10.9	8.2	4.7	3.0	1.75	1.26	1.01	0.86	0.55	0.47	0.252
10.50V	16.5	10.4	7.8	4.6	2.9	1.72	1.25	1.00	0.85	0.55	0.47	0.250
10.80V	16.0	10.0	7.5	4.3	2.7	1.68	1.21	0.97	0.82	0.53	0.46	0.245
11.10V	14.4	9.1	7.1	4.1	2.6	1.61	1.15	0.92	0.78	0.51	0.44	0.235

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

Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
9.60V	35	23	18.1	10.1	6.3	3.5	2.6	2.04	1.75	1.13	0.95	0.51
10.20V	32	20	15.6	9.0	5.7	3.4	2.5	2.00	1.70	1.11	0.94	0.50
10.50V	31	19.6	14.8	8.8	5.5	3.4	2.5	1.99	1.69	1.10	0.93	0.50
10.80V	30	18.8	14.2	8.2	5.3	3.3	2.4	1.93	1.64	1.07	0.91	0.49
11.10V	27	17.1	13.5	7.9	5.0	3.1	2.3	1.83	1.56	1.01	0.87	0.47



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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

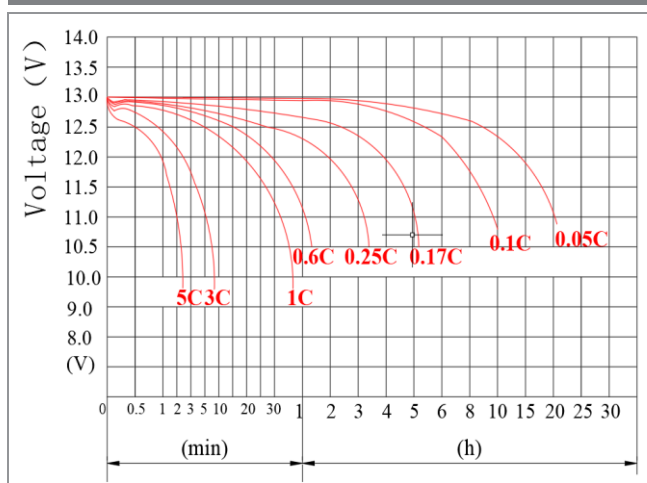
Applications

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

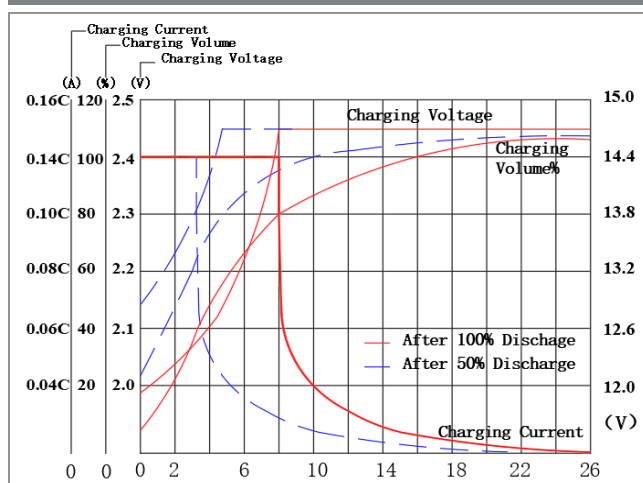
Standards

- 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

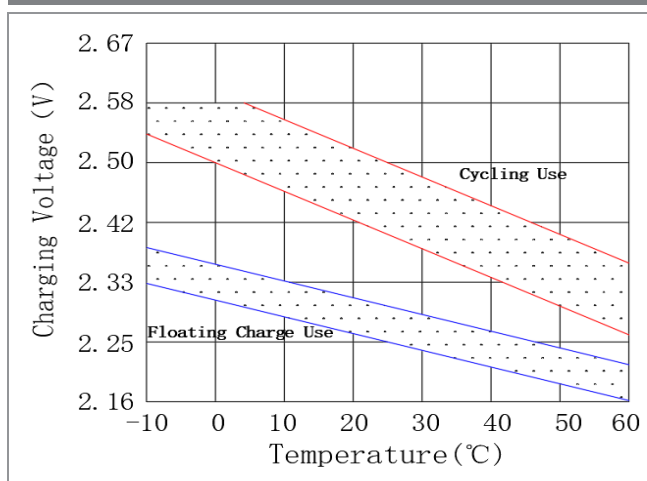
Discharge Characteristics(25°C)



Charging Characteristics(25°C)



Rel. The between Temp. and Charging Volt.



Capacity Retention Characteristics

