

VRLA Battery Specification

---12V Series



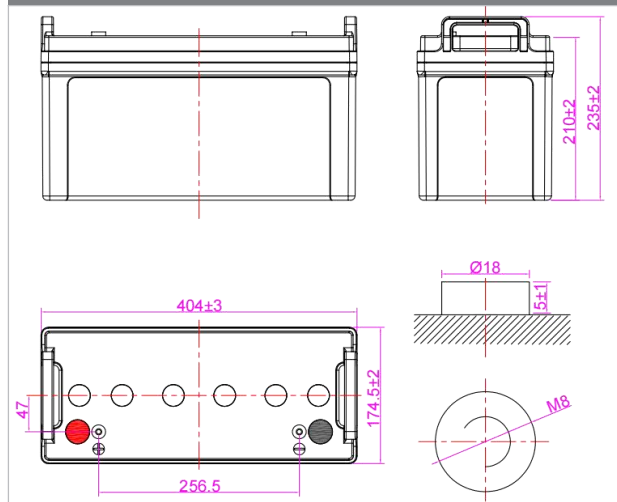
6-GFM-120 (12V120Ah)



Specifications

Nominal Voltage	12 V	
Nominal Capacity(C10)	120Ah(1.8V/cell@25°C)	
Dimensions	404*174.5*210/235(mm)	
Approx .Weight	34.6kg ±3%	
Internal Resistance	Approx.4.5mΩ@25°C	
Terminal	Φ18* M8	
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	30.0A @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°C (104°F)	105%
	25°C (77°F)	100%
	0°C (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	336	248	203	146	87.3	51.2	35.8	27.4	22.5	14.8	12.7	6.90
10.20V	288	232	196	138	84.0	49.2	34.4	26.4	21.6	14.5	12.4	6.60
10.50V	270	207	171	132	80.6	47.2	33.0	25.3	20.7	14.2	12.2	6.50
10.80V	250	200	159	124	76.4	45.3	31.6	24.3	19.9	13.6	12.0	6.40
11.10V	228	193	147	110	67.2	39.9	28.2	21.9	17.9	13.1	11.5	6.20

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

Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
9.60V	3532	2687	2332	1635	986	578	404	310	254	169	145	81.4
10.20V	3134	2537	2202	1587	966	566	395	303	247	167	143	77.9
10.50V	3016	2268	1925	1525	935	547	383	293	240	165	141	77.0
10.80V	2942	2132	1787	1445	894	530	370	282	233	159	140	76.2
11.10V	2723	1998	1649	1300	793	471	333	258	212	155	136	74.1



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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

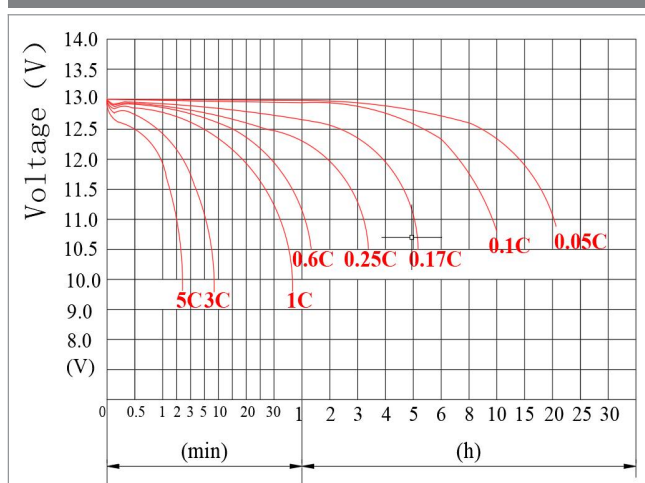
Applications

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

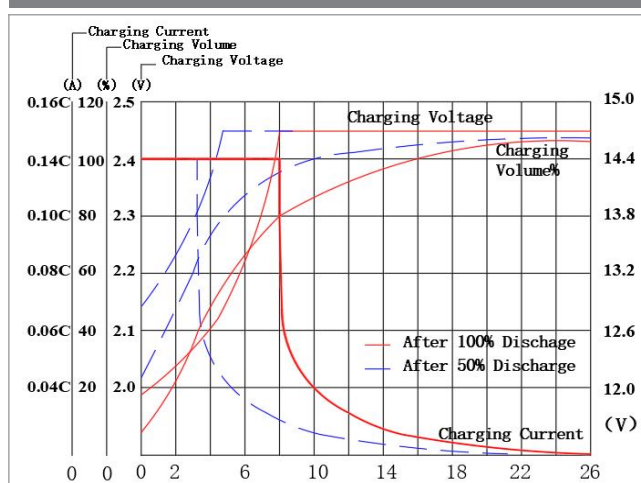
Standards

- 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

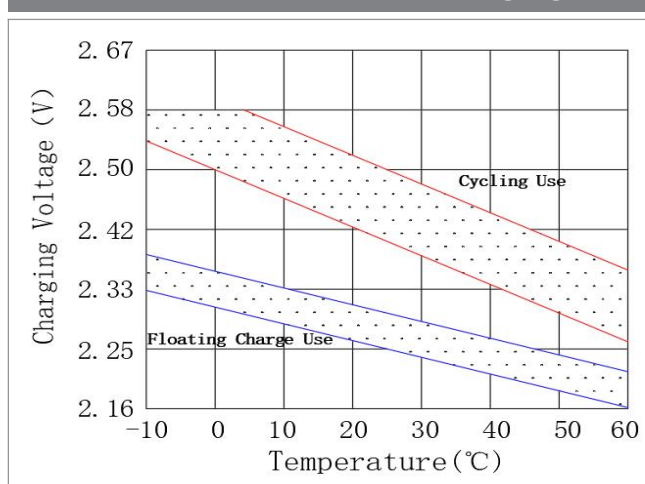
Discharge Characteristics(25°C)



Charging Characteristics(25°C)



Rel. The between Temp. and Charging Volt.



Capacity Retention Characteristics

