

EV12-10AH

Valve-regulated Lead Acid AGM

FEATURES

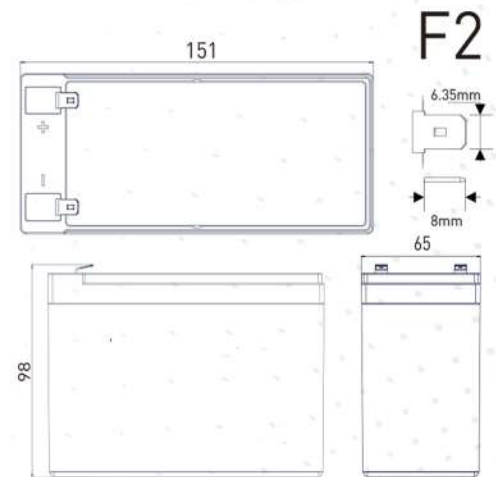
- 100% stable and reliable long-term quality
- Excellent charging and re-charging acceptance
- Cycle use: More than 260 cycles at 100% DOD
- Floating & standby use: 3-5 years
- Maintenance free
- Safety and no leakage
- Excellent recharge and discharge performance
- Low self-discharge rate
- Adapt to high or low temperature
- Good deep discharge performance
- Longer cycle life

APPLICATIONS

- Alarm System
- Communication Equipment
- Emergency Power System
- Security System
- UPS
- Power tools
- Control Equipment
- Medical Equipment



Rated Voltage	12V
Numbers of cells	6
capacity	10AH
Type	AGM-VRLA
Internal Resistance	at 25°C ≤23mΩ
Terminal	F2
Max. Discharge current	126 A (5 sec)
Short Circuit current	252 A
Max. Charging current	2.70A
Reference capacity 25°C	C20 10AH C10 9.07AH C5 8.25AH C1 5.10AH
Designed Floating Life	3 - 5 Years
Float Charging Voltage	13.5-13.8V (-20mV/C) 25°C
Cycle Use Voltage	14.4-15.0V(-30mV/C) 25°C
Operating Temperature Range	25°C
Capacity Affected by Temp.(20HR)	40°C 102% 25°C 100% 0°C 85% -15°C 65%
Self Discharge	2% of capacity declined per month at (25°C)



Length	151mm ±1.5mm
Width	65mm ±1.5mm
Height	94mm ±1.5mm
Total Height	98mm ±1.5mm
Approx. Weight	2.52Kg ±3%

Constant Current Discharge(CC,Unit:A) at 25°C (77°F)

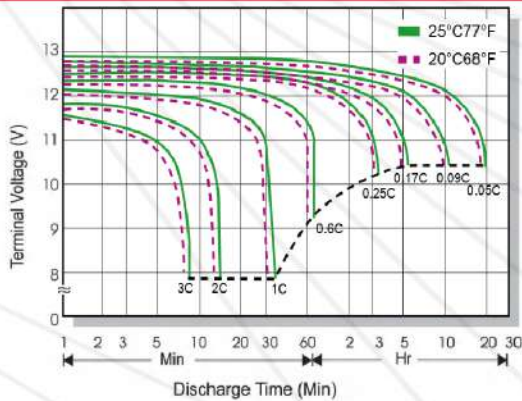
F.V/TIME	5Min	10Min	15Min	30Min	1Hr	2Hr	3Hr	4Hr	5Hr	6Hr	10Hr	20Hr
1.85V/Cell	30.02	17.90	14.16	8.95	5.22	3.02	2.32	1.817	1.387	1.272	0.834	0.433
1.80V/Cell	30.60	18.24	14.43	9.12	5.32	3.08	2.36	1.852	1.413	1.296	0.850	0.442
1.75V/Cell	31.17	18.59	14.70	9.29	5.42	3.13	2.41	1.887	1.440	1.320	0.866	0.450
1.70V/Cell	33.98	19.70	15.59	9.66	5.52	3.19	2.45	1.920	1.465	1.344	0.881	0.458
1.67V/Cell	37.41	21.37	16.91	10.20	5.58	3.22	2.48	1.940	1.481	1.358	0.891	0.463
1.60V/Cell	40.52	22.49	17.79	10.64	5.64	3.26	2.50	1.961	1.497	1.373	0.900	0.468

Constant Power Discharge (CP,Unit:W) at 25°C (77°F)

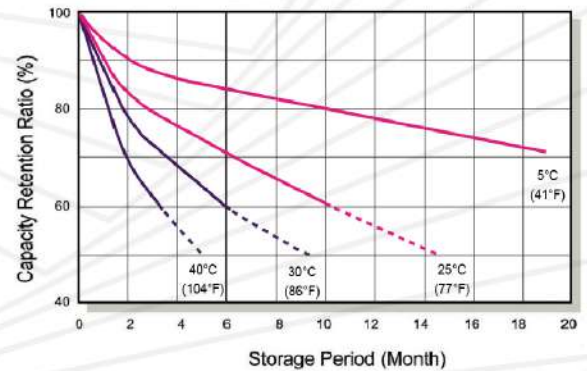
F.V/TIME	5Min	10Min	15Min	30Min	1Hr	2Hr	3Hr	4Hr	5Hr	6Hr	10Hr	20Hr
1.85V/Cell	58.55	34.91	27.62	17.45	10.18	5.89	4.52	3.54	2.70	2.48	1.63	0.85
1.80V/Cell	59.66	35.57	28.14	17.78	10.38	6.00	4.61	3.61	2.76	2.53	1.66	0.86
1.75V/Cell	60.78	36.24	28.67	18.12	10.57	6.11	4.69	3.68	2.81	2.57	1.69	0.88
1.70V/Cell	6.25	38.24	30.39	18.84	10.76	6.22	4.78	3.74	2.86	2.62	1.72	0.89
1.67V/Cell	72.94	41.68	32.97	19.89	10.88	6.29	4.83	3.78	2.89	2.65	1.74	0.90
1.60V/Cell	79.02	43.85	34.69	20.74	10.99	6.35	4.88	3.82	2.92	2.68	1.76	0.91

Performance Parameters

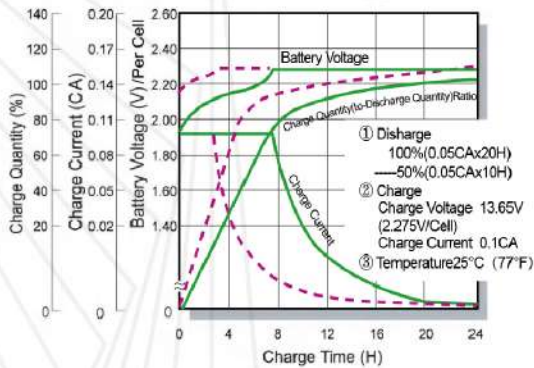
Terminal Voltage (V) and Discharge Time



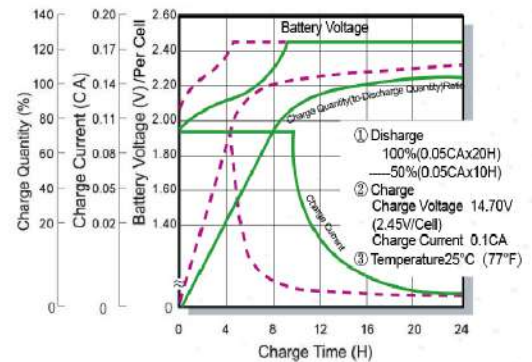
Capacity Retention Characteristic



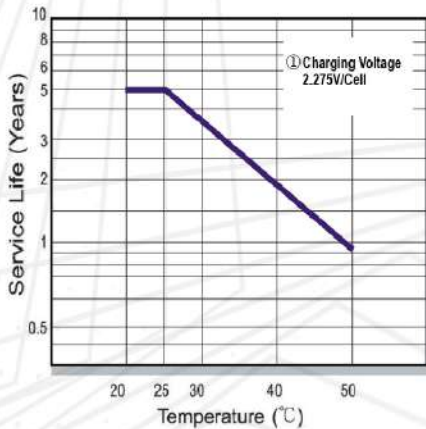
Battery Voltage and Charge Time for Standby Use



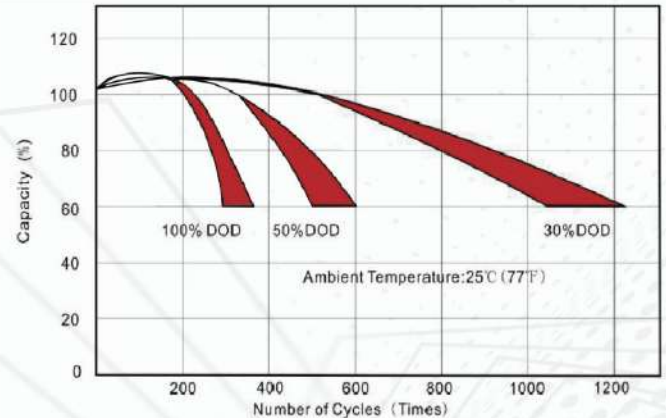
Battery Voltage and Charge Time for Cycle Use



Tickle(or Float) Service Life



Cycle Service Life



Battery Construction

COMPONENT	POSITIVE	NEGATIVE	CONTAINER	COVER	SEALANT	SAFETY VALVE	TERMINAL	SEPARATOR	ELECTROLYTE
RAW MATERIAL	LEAD DIOXIDE	LEAD	ABS	ABS	EPOXY	RUBBER	COPPER	FIBER GLASS	SULFURIC ACID

