

LIVEN LV Series - VRLA Battery

- 100% before shipment testing, stable and reliable long-term quality
- Patented grid alloy formula and updated manufacturing technique
- Completely sealed and maintenance-free, low self-discharge
- Excellent charging and re-charging acceptance
- Cycle use: More than 260 cycles at 100% DOD
- Floating & standby use: 3-5 years

Application:

- Telecommunications
- Uninterruptable Power Supply (UPS)
- Electric Power System (EPS)
- Emergency backup power supply
- Alarm and security system
- Communication power supply
- DC power supply
- Auto Control System

Construction:

- ComponentRaw material
- PositiveLead dioxide
- NegativeLead
- ContainerABS
- CoverABS
- SealantEpoxy
- Safety valve Rubber
- TerminalCopper
- SeparatorFiber glass
- Electrolyte Sulfuric acid

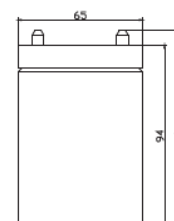
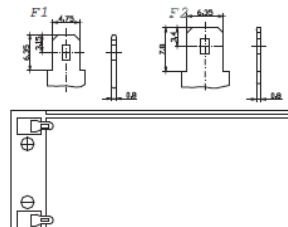
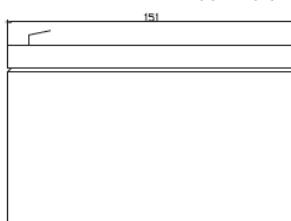


Specification:

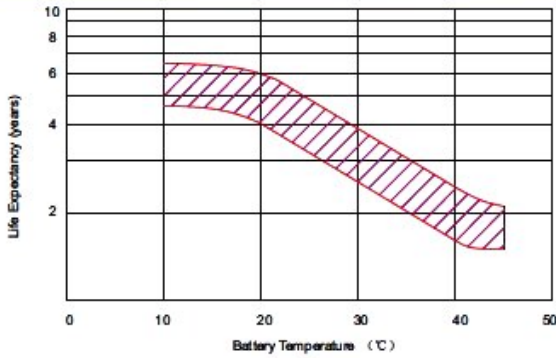
Cells Per Unit	6
Voltage Per Unit	12
Capacity	7.0Ah@20hr-rate to 1.75V per cell @25°C
Weight	Approx. 2.0 Kg
Max. Discharge Current	70A (5 sec)
Internal Resistance	Approx. 30 m Ω
Operating Temperature Range	Discharge: -20°C~60°C Charge: 0°C~50°C Storage: -20°C~60°C
Normal Operating Temperature Range	25°C ± 5°C
Float charging Voltage	13.7 to 13.9 VDC/unit Average at 25°C
Recommended Maximum Charging Current	2.1 A
Equalization and Cycle Service	14.6 to 14.8 VDC/unit Average at 25°C
Self Discharge	LIVEN Valve Regulated Lead Acid (VRLA) batteries can be stored for more than 6 months at 25°C. Self-discharge ratio less than 3% per month at 25°C. Please charge batteries before using.
Terminal	Faston Tab 187(F1)/Faston tab 250(F2)
Constainer Material	A.B.S. UL94-HB, UL94-V0 Optional.

Outer Dimensions:

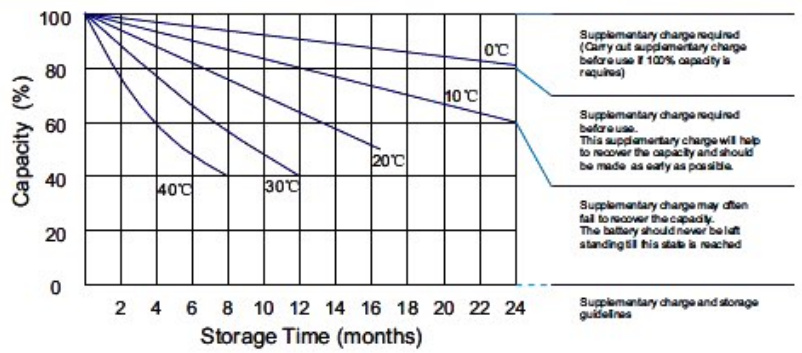
Unit: mm Dimension: 151(L) × 65(W) × 100(H)



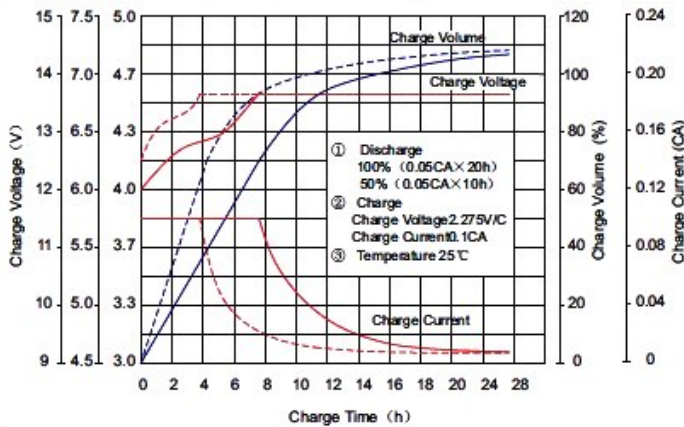
Effect of temperature on long term float life



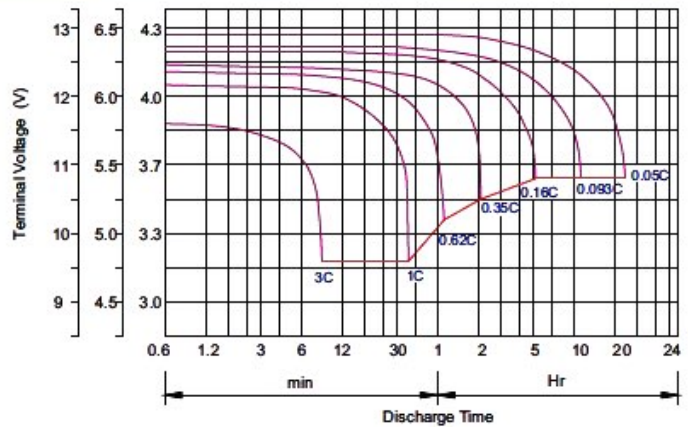
Storage characteristic



Charge characteristic Curve for standby use



Discharge characteristic Curve



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

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.60V	26.23	17.20	12.81	6.818	4.549	2.573	1.833	1.493	1.227	0.808	0.700	0.375
10.0V	25.28	16.77	12.40	6.730	4.489	2.521	1.799	1.472	1.216	0.805	0.693	0.371
10.2V	23.80	15.94	12.05	6.628	4.446	2.495	1.783	1.457	1.208	0.798	0.682	0.361
10.5V	21.39	14.90	11.37	6.445	4.392	2.462	1.767	1.436	1.198	0.791	0.679	0.353
10.8V	19.17	13.90	10.73	6.232	4.331	2.442	1.747	1.387	1.192	0.787	0.667	0.339
11.1V	16.77	12.74	8.895	5.995	4.228	2.344	1.713	1.367	1.187	0.781	0.657	0.334

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

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.60V	284.5	188.6	141.3	78.04	54.39	30.32	21.92	17.87	14.70	9.678	8.383	4.494
10.0V	277.1	184.6	139.3	77.23	53.59	29.92	21.56	17.62	14.57	9.641	8.304	4.458
10.2V	263.5	177.3	137.5	76.56	53.19	29.66	21.37	17.46	14.48	9.568	8.197	4.343
10.5V	240.5	170.0	130.3	75.00	52.48	29.34	21.22	17.22	14.36	9.488	8.140	4.270
10.8V	217.0	159.1	123.1	73.22	51.79	29.13	20.97	16.64	14.30	9.446	8.016	4.099
11.1V	191.4	148.1	115.9	71.21	50.65	28.11	20.56	16.40	14.25	9.379	7.897	4.034

All mentioned values are average values (Tolerance ±2%).

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