



LIVEN LV Series

AGM (Absorbent Glass Material) technology with gas recombination. VRLA (Valve Regulated Lead Acid Battery). Maintenance-Free Sealed Lead Acid Battery. Battery with 5 years design life in float service.

Cycle use 1: Up to 260 cycles at 100% DOD.
Cycle use 2: Up to 500 cycles at 50% DOD.

Applications:

- Telecommunications
- Uninterrupted Power Supplies
- Medical equipments
- Emergency backup power supply
- Alarm and security system
- Communication power supply
- DC power supply

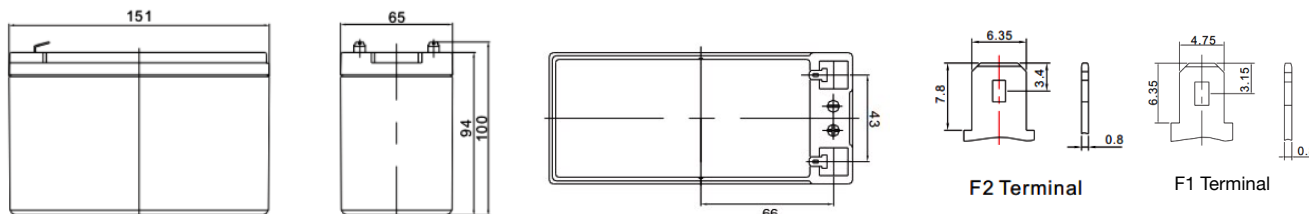
Dimensions:

Length	151±1.5mm (5.94in)
Width	65±1.5mm (2.56in)
Height	94±1.5mm (3.70in)
Total Height	100±1.5mm (3.94in)

Specifications:

Cells Per Unit	6
Voltage Per Unit	12V
Nominal Capacity	7.0Ah @20hour-rate to 1.75V per cell @25°C
Weight	Approx. 1.95Kg ±2% (4.30lbs)
Internal Resistance	Approx. 30mΩ
Terminal	F1 / F2 (optional)
Max. Discharge Current	70A (5sec)
Short Circuit Current	340A
Design Life	5 years (Float charging) Eurobat (20°C): 3-5 years
Recommended Maximum Charging Current	2.1A
Standby Use Voltage	13.5V~13.8V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	14.4V~15.0V @ 25°C Temperature Compensation: -4mV/°C/Cell
Operating Temperature Range	Discharge: -15°C~50°C Charge: -10°C~45°C Storage: -15°C~50°C
Normal Operating Temperature Range	25°C±5°C
Self Discharge	LIVEN Valve Regulated Lead Acid (VRLA) batteries can be stored for up to 6 months at 25°C and then recharging is recommended. Monthly Self-discharge ratio is less than 3% at 25°C. Please charge batteries before using.
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.

Technical Drawings:



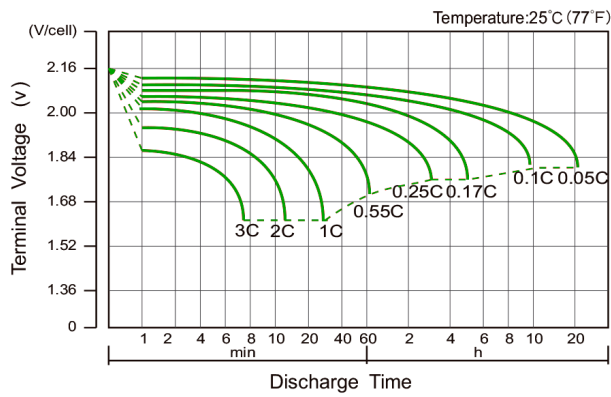
Constant Current Discharge (CC, Unit: A) at 25°C (77°F)

F.V./ Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	26.11	17.38	13.09	7.574	4.465	2.634	1.915	1.525	1.287	0.860	0.701	0.364
1.65V	25.17	16.87	12.74	7.407	4.382	2.596	1.890	1.506	1.273	0.852	0.694	0.362
1.70V	23.94	16.19	12.29	7.188	4.273	2.545	1.856	1.481	1.253	0.840	0.685	0.358
1.75V	22.37	15.31	11.71	6.900	4.129	2.477	1.811	1.447	1.226	0.825	0.673	0.352
1.80V	20.38	14.18	10.95	6.527	3.941	2.388	1.752	1.403	1.192	0.804	0.658	0.346
1.85V	17.93	12.78	10.00	6.050	3.698	2.272	1.674	1.345	1.146	0.777	0.637	0.336

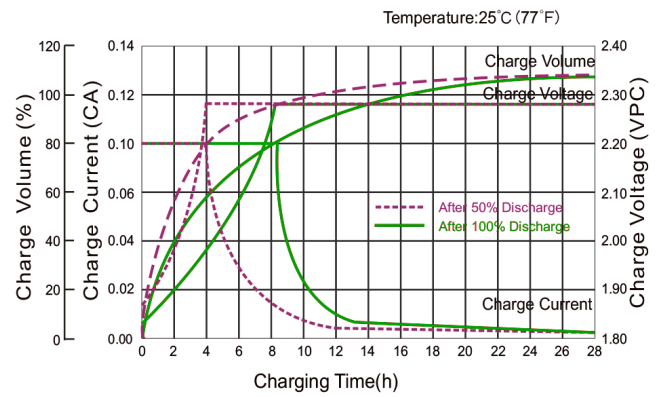
Constant Power Discharge (CP, Unit: W/Battery) at 25°C (77°F)

F.V./ Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	269.70	179.94	139.32	83.76	50.82	30.42	22.26	17.82	15.12	10.26	8.40	4.38
1.65V	266.82	179.22	138.54	83.16	50.40	30.18	22.14	17.70	15.00	10.14	8.34	4.32
1.70V	256.68	173.94	134.82	81.12	49.32	29.70	21.78	17.46	14.82	10.02	8.22	4.32
1.75V	244.08	167.46	130.26	78.72	47.94	29.04	21.36	17.10	14.58	9.84	8.10	4.26
1.80V	226.26	157.86	123.54	75.18	45.96	28.14	20.70	16.68	14.16	9.66	7.92	4.14
1.85V	202.68	144.72	114.42	70.38	43.44	26.88	19.92	16.02	13.68	9.36	7.68	4.08

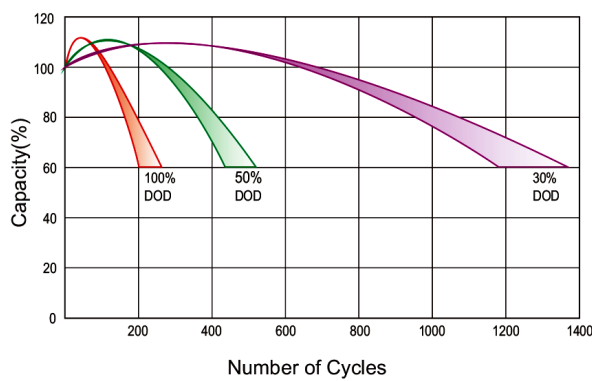
Discharge Characteristics Curve



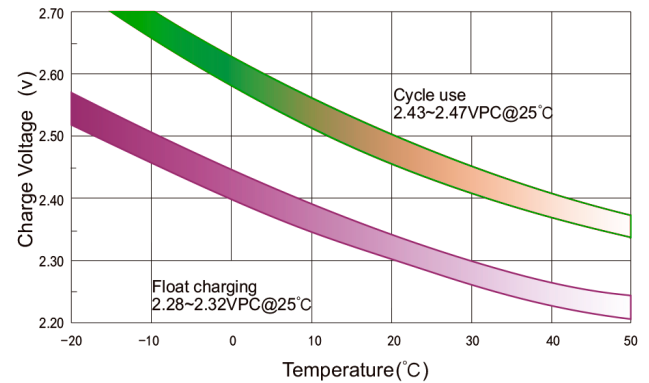
Charge Characteristic Curve For Standby Use



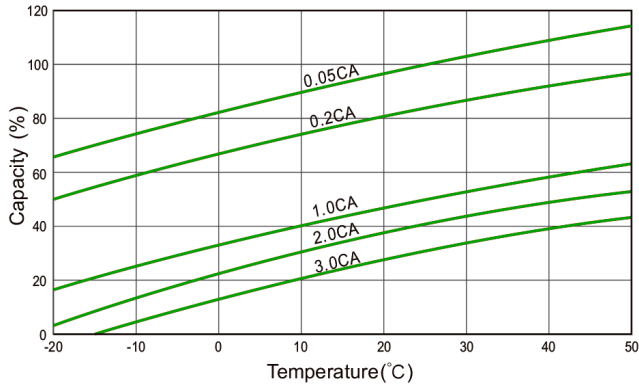
Cycle Life In Relation To Depth Of Discharge



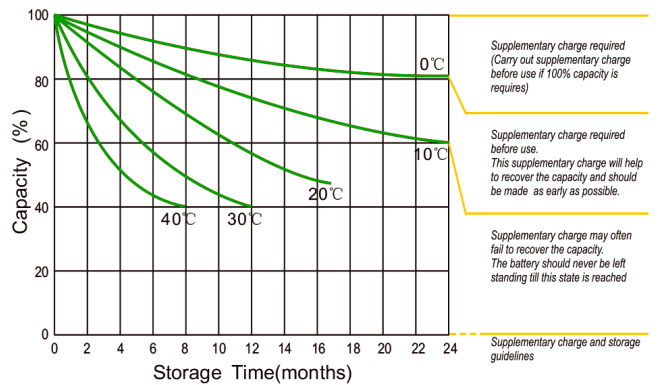
Relationship Between Charging Voltage And Temperature



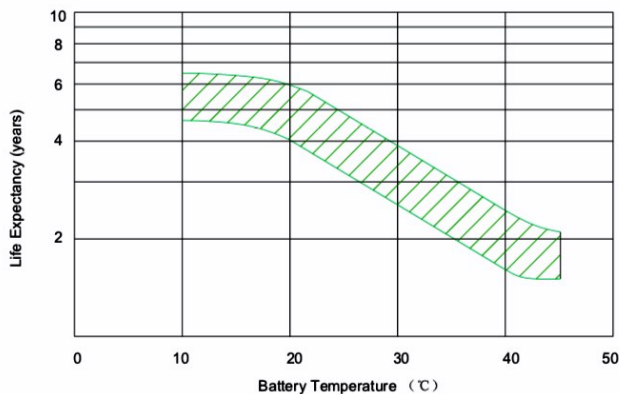
Temperature Effects On Capacity



Storage Characteristics



Effect Of Temperature On Long Term Life



Life Characteristics Of Standby Use

