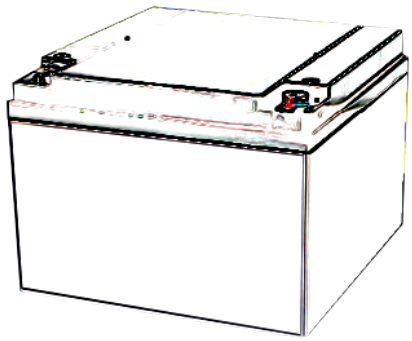
LIVEN BATTERY

12V 104W LVH12-104W

LVH series VRLA battery



LIVEN LVH Series

AGM (Absorbent Glass Material) technology with gas recombination. The LVH series Valve Regulated Lead Acid (VRLA) battery is designed for heavy load discharge applications with 8 years design life in float service. By using strong grids and specially designed active material is with lower I.R, lower self discharge rate, high power, and longer service life performance. Generally the LVH series offers 30% more power output than the standard range.

Application:

- High Power
- Uninterrupted Power Supplies
- Datacenters
- Emergency backup power supply
- Alarm and security system
- Communication power supply
- DC power supply
- Electric Tools

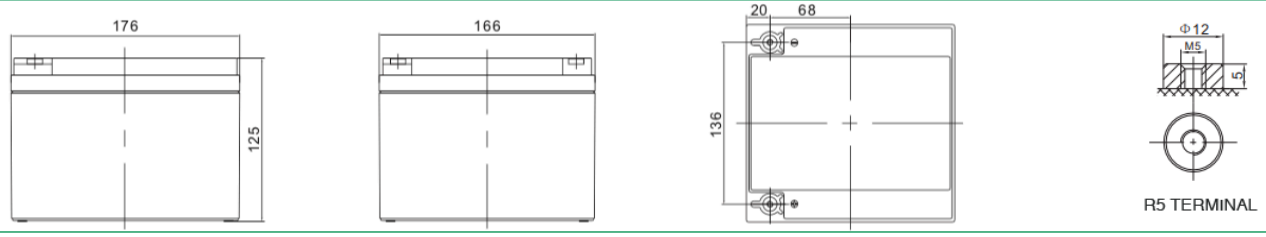
Dimensions:

Length	166±1mm (6.54 inches)
Width	176±1mm (6.93 inches)
Height	125±1mm (4.92 inches)
Total Height	125±1mm (4.92 inches)

Specification:

Cells Per Unit	6
Voltage Per Unit	12
Nominal Capacity	104W@15min-rate to 1.67V per cell @25°C
Weight	Approx. 8.60 Kg ±2%
Internal Resistance	Approx. 8 mΩ
Terminal	R5
Max. Discharge Current	260A (5 sec)
Design Life	8 years floating Eurobat (20ºC): 6-9 years General Purpose
Recommended Maximum Charging Current	7.8 A
Reference Capacity	C20 26.0AH
Standby Use Voltage	13.7 V~13.9 V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	14.6 V~14.8 V @ 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.

Drawing:



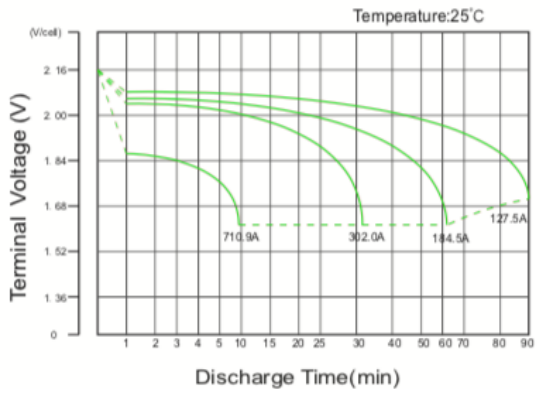
Constant Current Discharge (CC, Unit: A) at 25ºC (77ºF)

F.V/Time	3MIN	5MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
1.60V	119.5	103.9	86.40	76.23	58.93	47.70	34.92	20.36	14.84
1.67V	110.6	96.16	81.05	71.52	55.86	44.49	33.29	19.41	14.13
1.70V	106.0	92.16	78.20	68.94	54.13	42.79	32.35	18.85	13.70
1.75V	100.1	87.04	74.29	64.73	51.60	41.62	31.44	18.54	13.40
1.80V	94.15	81.87	70.38	60.50	49.01	40.39	30.47	18.17	13.07
1.85V	87.86	76.40	66.17	56.09	46.22	38.98	29.35	17.74	12.68

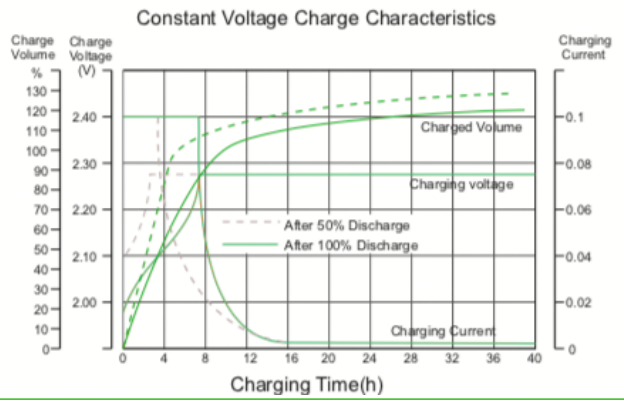
Constant Power Discharge (CP, Unit: W/Battery) at 25ºC (77ºF)

F.V/Time	3MIN	5MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
1.60V	1296.0	1128.0	954.0	846.0	660.0	526.2	385.8	226.2	165.6
1.67V	1212.0	1056.0	900.0	804.0	630.0	495.6	371.4	217.2	159.0
1.70V	1176.0	1026.0	882.0	780.0	618.0	482.4	365.4	213.6	156.0
1.75V	1128.0	978.0	846.0	744.0	595.8	474.6	359.4	213.0	154.2
1.80V	1074.0	936.0	816.0	702.0	574.2	467.4	353.4	211.8	153.0
1.85V	1020.0	888.0	780.0	666.0	552.6	460.2	347.4	210.6	151.2

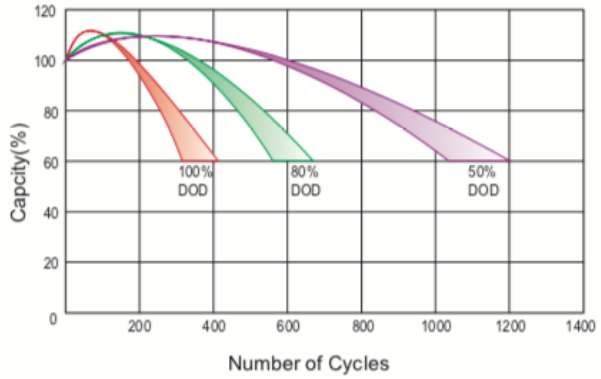
Discharge Characteristics Curve



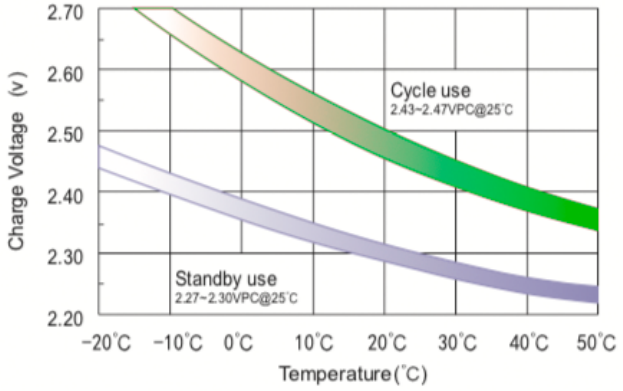
Charge Characteristic Curve For Standby Use



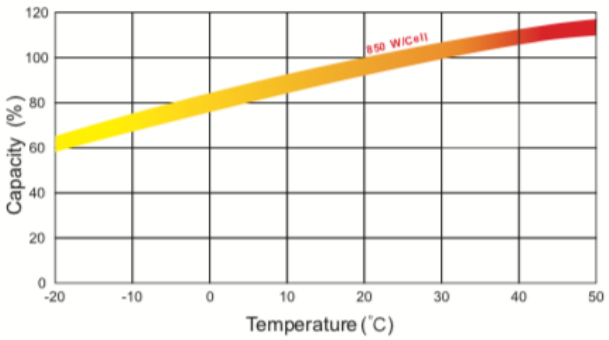
Cycle Life In Relation To Depth Of Discharge (up to 15')



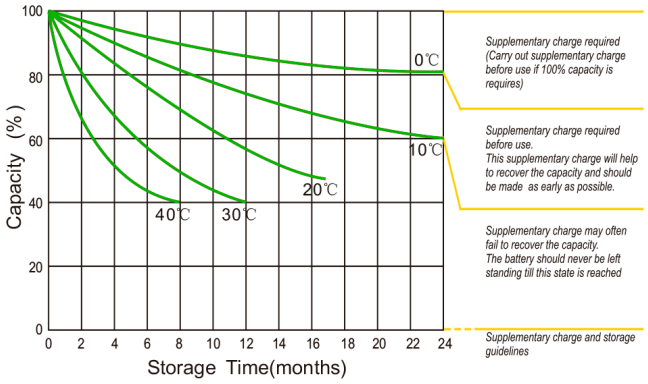
Relationship Between Charging Voltage And Temperature



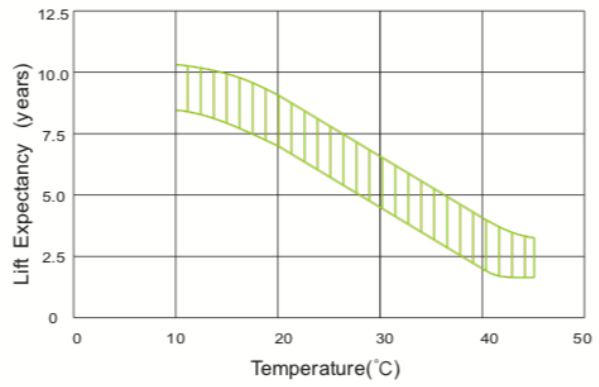
Temperature Effects On Capacity



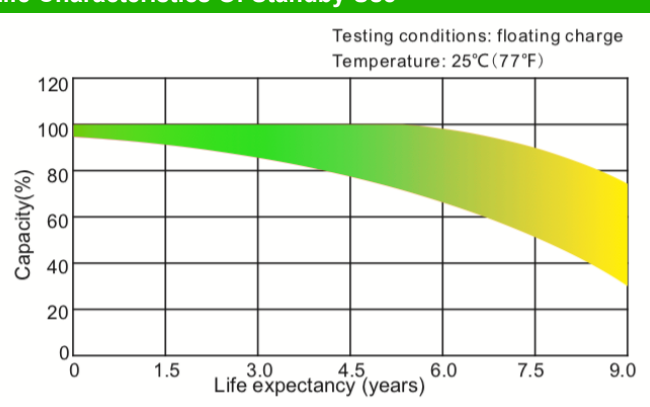
Storage Characteristics



Effect Of Temperature On Long Term Life



Life Characteristics Of Standby Use



(Note) All above information shall be changed without prior notice, LIVEN Battery reserves the right to explain and update the latest information.

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