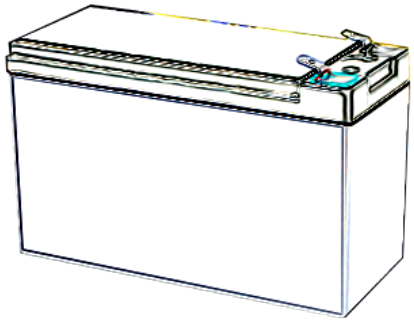
LIVEN BATTERY

12V 28W

LVH12-28W

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

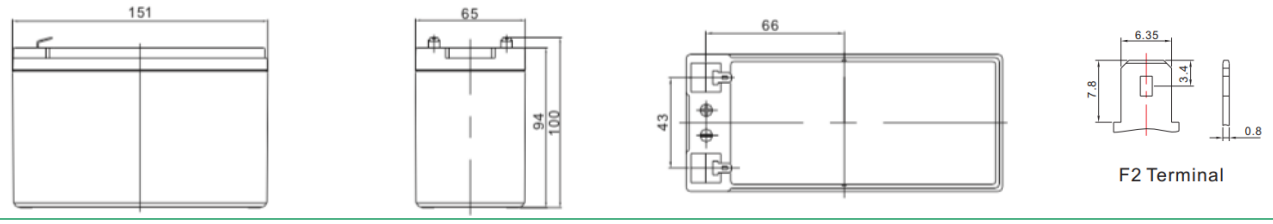
Dimensions:

Length	151±1mm (5.94 inches)
Width	65±1mm (2.56 inches)
Height	94±1mm (3.70 inches)
Total Height	100±1mm (3.94 inches)

Specification:

Cells Per Unit	6
Voltage Per Unit	12
Nominal Capacity	28W@15min-rate to 1.67V per cell @25°C
Weight	Approx. 2.20 Kg ±2%
Internal Resistance	Approx. 18 mΩ
Terminal	F2
Max. Discharge Current	70A (5 sec)
Design Life	8 years floating Eurobat (20ºC): 6-9 years General Purpose
Recommended Maximum Charging Current	2.1 A
Reference Capacity	C20 7.2AH
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:



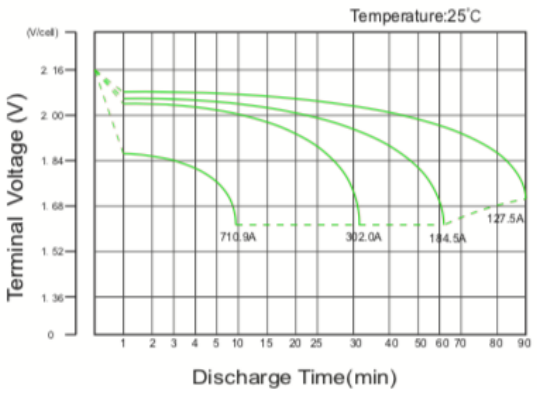
Constant Current Discharge (CC, Unit: A) at 25ºC (77ºF)

F.V/Time	3MIN	5MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
1.60V	32.17	27.98	23.26	20.52	15.86	12.84	9.120	5.200	3.790
1.67V	29.77	25.89	21.82	19.26	15.04	11.98	8.694	4.956	3.608
1.70V	28.53	24.81	21.05	18.56	14.57	11.52	8.448	4.813	3.500
1.75V	26.95	23.43	20.00	17.43	13.89	11.21	8.210	4.734	3.421
1.80V	25.35	22.04	18.95	16.29	13.20	10.87	7.958	4.641	3.338
1.85V	23.66	20.57	17.82	15.10	12.44	10.50	7.664	4.530	3.238

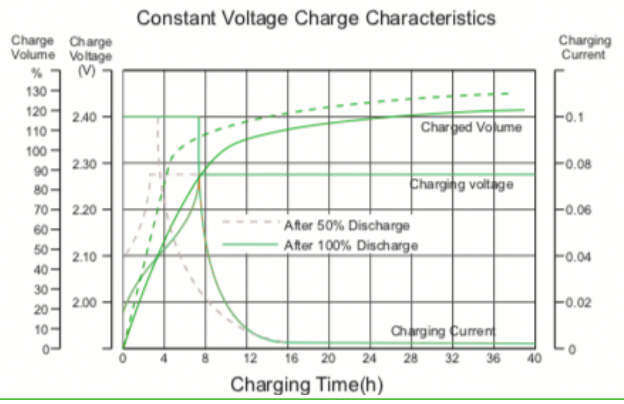
Constant Power Discharge (CP, Unit: W/Battery) at 25ºC (77ºF)

F.V/Time	3MIN	5MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
1.60V	349.6	304.0	256.5	227.6	177.1	141.6	100.8	57.7	42.2
1.67V	326.6	284.0	242.9	215.7	169.4	133.4	97.0	55.5	40.6
1.70V	316.8	275.5	237.2	210.4	166.1	129.8	95.4	54.6	39.8
1.75V	303.0	263.5	228.2	200.0	160.4	127.9	93.9	54.4	39.4
1.80V	289.1	251.4	219.3	189.7	154.6	125.9	92.3	54.0	39.0
1.85V	275.3	239.3	210.4	179.4	148.7	124.0	90.7	53.8	38.6

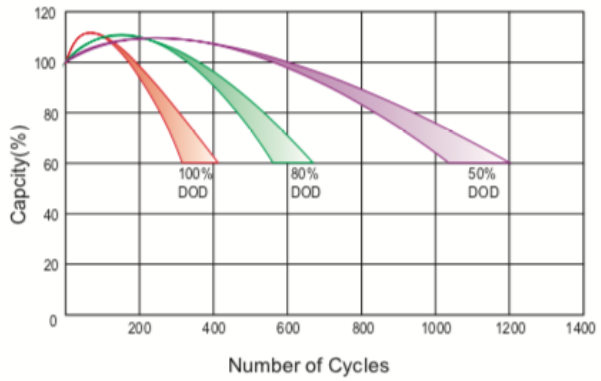
Discharge Characteristics Curve



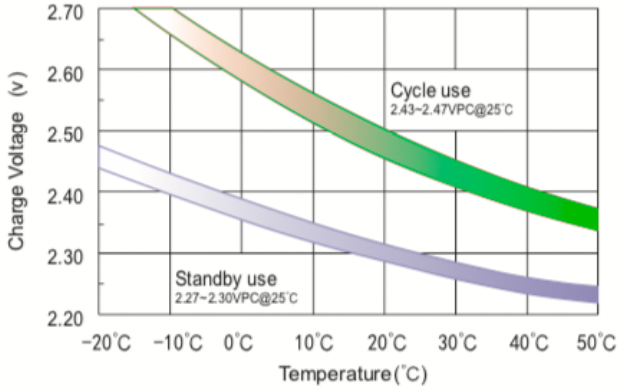
Charge Characteristic Curve For Standby Use



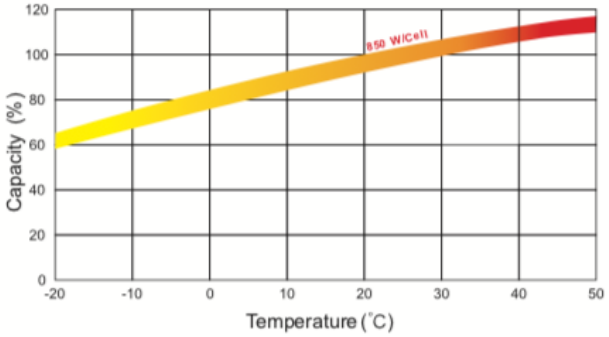
Cycle Life In Relation To Depth Of Discharge (up to 15')



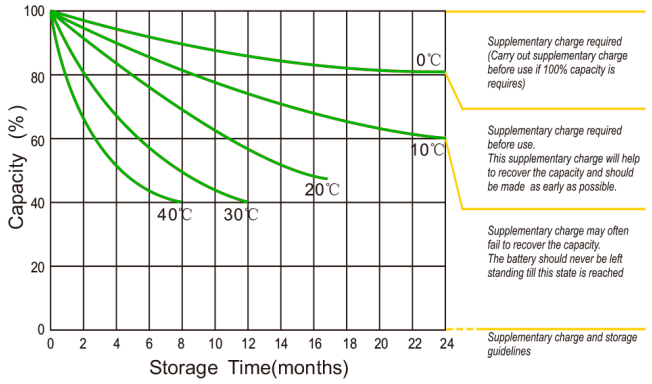
Relationship Between Charging Voltage And Temperature



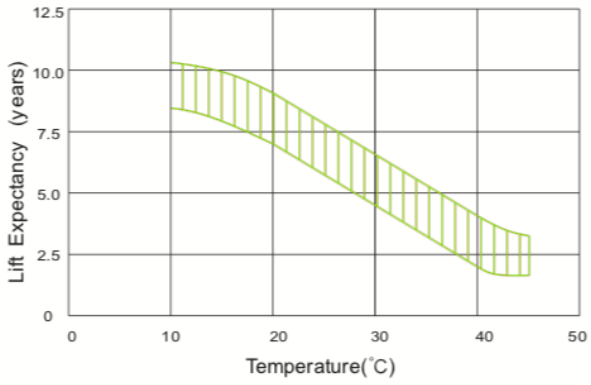
Temperature Effects On Capacity



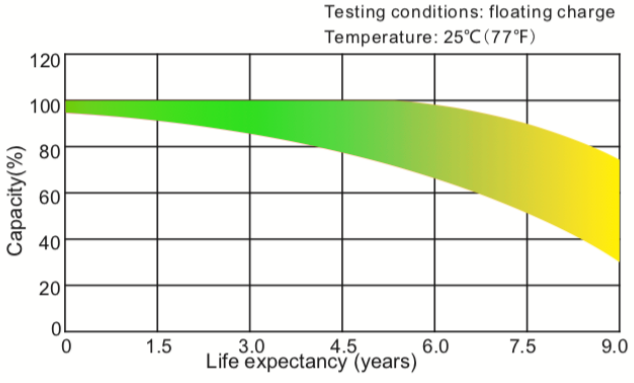
Storage Characteristics



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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