LIVEN BATTERY

12V 150W

LVH12-150W

AGM High Rate 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 15 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.

Applications:

- High Power
- UPS
- Datacenters
- Emergency backup PW
- Security system
- Communication power supply
- DC power supply
- Electric Tools

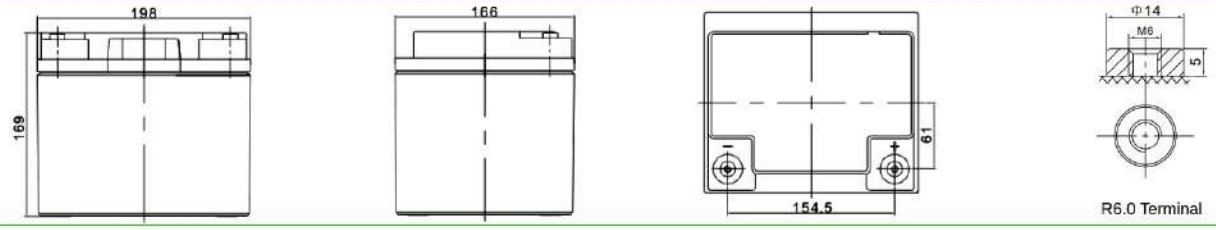
Dimensions:

Length	198±1mm (7.80in)
Width	166±1mm (6.54in)
Height	169±1mm (6.65in)
Total Height	169±1mm (6.65in)

Specifications:

Cells Per Unit	6
Voltage Per Unit	12V
Nominal Capacity	150W @15min-rate to 1.67V per cell @25°C
Weight	Approx. 12.40Kg ±2% (27.34lbs)
Internal Resistance	Approx. 8.5mΩ
Terminal	R6.0
Max. Discharge Current	400A (5sec)
Design Life	15 years floating Eurobat (20°C): >12 years Very Long Life
Recommended Maximum Charging Current	12.0A
Reference Capacity	C20 40Ah
Standby Use Voltage	13.6V~13.8V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	14.6V~14.8V @ 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:



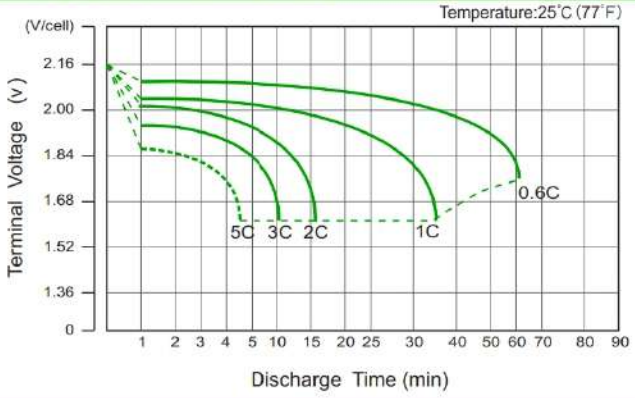
Constant Current Discharge (CC, Unit: A) at 25ºC (77ºF)

F.V./ Time	5min	8min	10min	15min	20min	30min	60min	90min
1.60V	149.9	124.1	108.7	83.0	67.5	49.8	28.8	20.7
1.67V	136.0	113.8	100.5	77.4	63.5	47.1	27.5	19.8
1.70V	130.2	109.4	96.9	75.0	61.7	46.0	26.9	19.5
1.75V	120.2	101.9	90.8	71.0	58.6	44.0	26.0	18.8
1.80V	110.2	94.4	84.8	67.1	55.9	42.2	25.1	18.2
1.85V	94.6	80.4	71.8	57.7	48.5	37.3	22.6	16.6

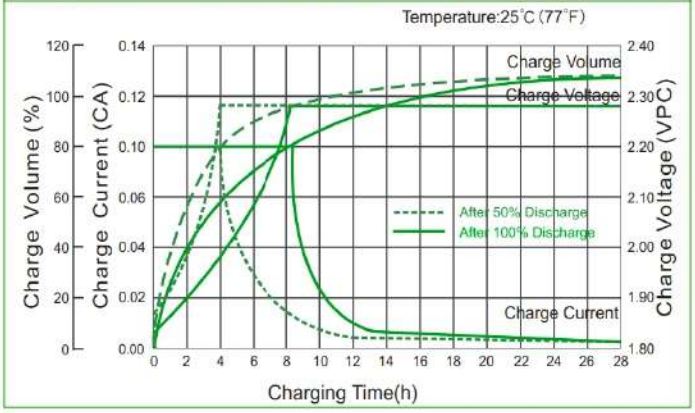
Constant Power Discharge (CP, Unit: W/Battery) at 25ºC (77ºF)

F.V./ Time	5min	8min	10min	15min	20min	30min	60min	90min
1.60V	1652.4	1386.6	1227.0	948.6	778.8	580.2	324.6	234.6
1.67V	1538.4	1300.8	1158.0	900.0	743.4	556.8	312.6	226.8
1.70V	1487.4	1261.8	1125.6	879.0	727.2	545.4	307.2	223.8
1.75V	1396.2	1192.2	1069.2	841.2	698.4	527.4	298.8	217.8
1.80V	1299.0	1119.0	1009.8	804.0	672.0	508.8	289.8	211.8
1.85V	1131.6	966.6	867.0	698.4	588.6	454.2	264.0	195.0

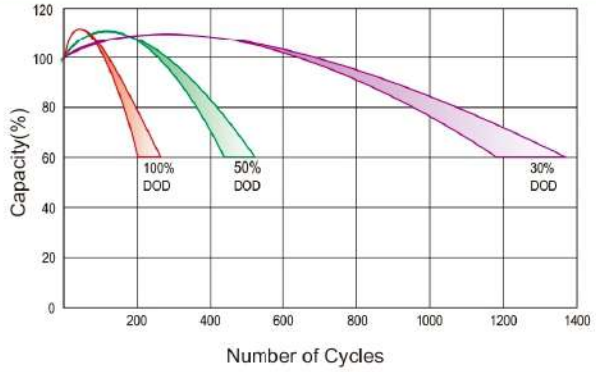
Discharge Characteristics Curve



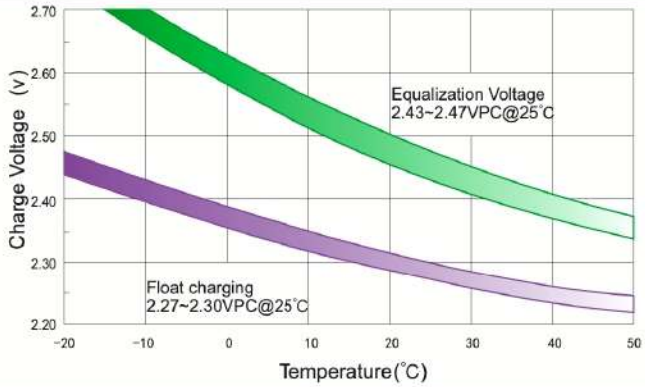
Charge Characteristic Curve For Standby Use



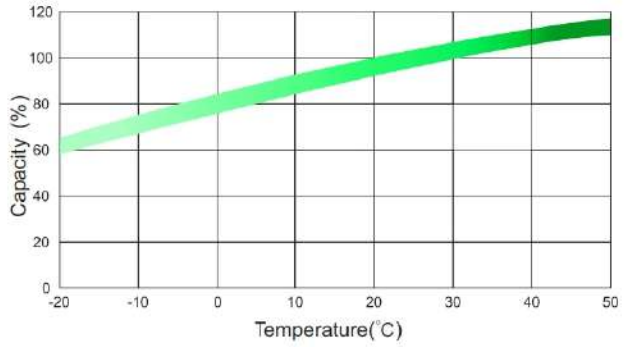
Cycle Life In Relation To Depth Of Discharge



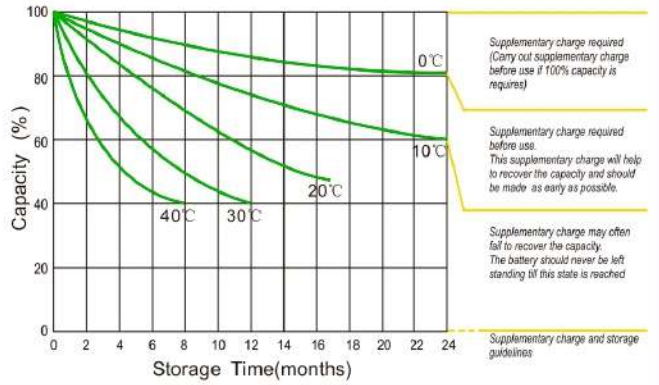
Relationship Between Charging Voltage And Temperature



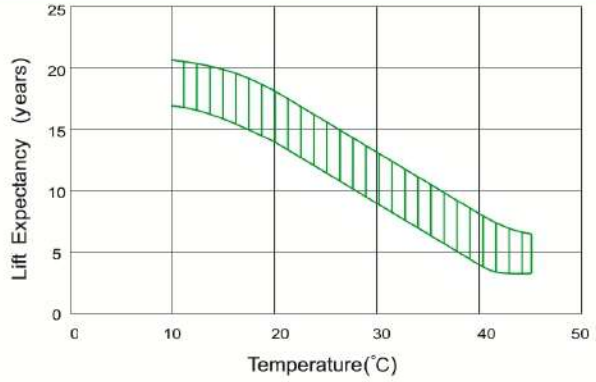
Temperature Effects On Capacity



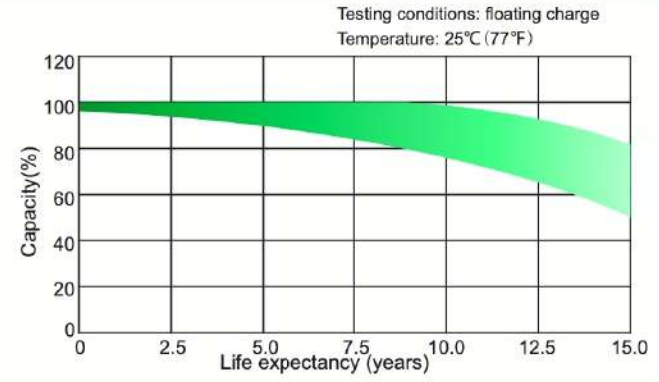
Storage Characteristics



Effect Of Temperature On Long Term Life



Life Characteristics Of Standby Use



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