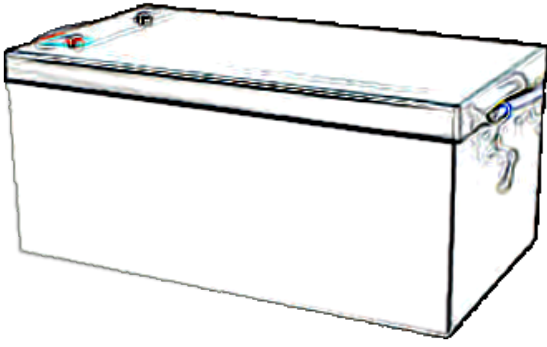




LIVEN LVJ Series

LVJ Hybrid Gel series are manufactured with AGM separator (Absorbent Glass Material) and patented Gel electrolyte. The LVJ series Valve Regulated Lead Acid (VRLA) is Hybrid Gel battery with 12 years floating design life. This battery it's ideal for standby or frequent cyclic discharge applications.

The number of deep discharge cycles is increase much compared with normal AGM, 400 cycles at 100% DOD.

Application:

- Telecommunications
- Uninterrupted Power Supplies
- Medical equipments
- Solar System
- Wind Power System
- Auto Control System

Dimensions:

Length	520±2mm (20.5 inches)
Width	268±2mm (10.6 inches)
Height	220±2mm (8.66 inches)
Total Height	225±2mm (8.86 inches)

Specification:

Cells Per Unit	6
Voltage Per Unit	12
Nominal Capacity	260Ah@20hr-rate to 1.75V per cell @25°C
Weight	Approx. 74.0 Kg ±2%
Internal Resistance	Approx. 3.5 mΩ
Terminal	F14
Max. Discharge Current	2600A (5 sec)
Design Life	12 years floating Eurobat (20°C): 10-12 years Long Life
Recommended Maximum Charging Current	78.0 A
Standby Use Voltage	13.6 V~13.8 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: -20°C~60°C Charge: 0°C~50°C Storage: -20°C~60°C
Normal Operating Temperature Range	25°C±5°C

Self Discharge

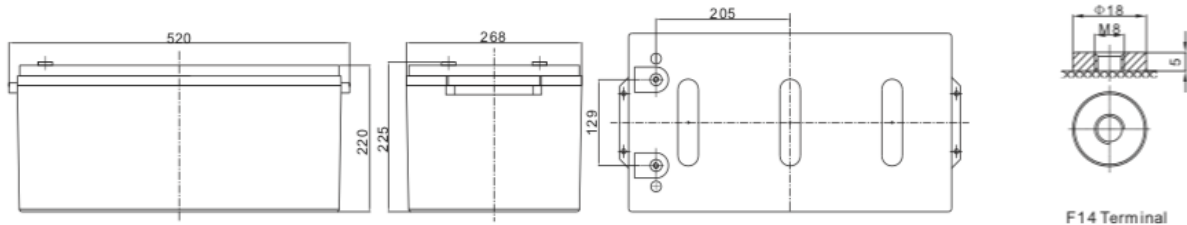
LIVEN Valve Regulated Lead Acid (VRLA) batteries can be stored for up to 6 months at 25°C and then recharging is recommended. Monthly Self-discharge ratio is less than 3% at 25°C. Please charge batteries before using.

Container Material

A.B.S. UL94-HB, UL94-V0 Optional.



Drawing:



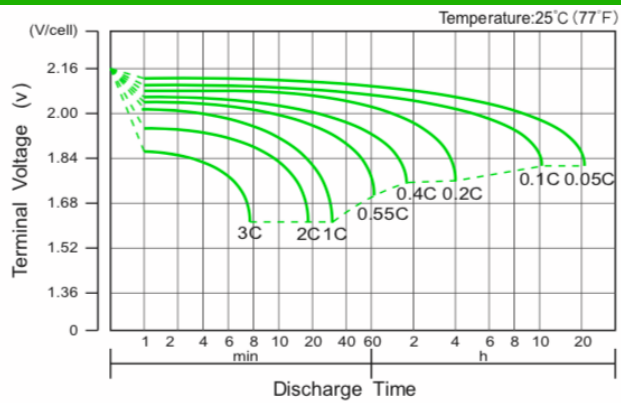
Constant Current Discharge (CC, Unit: A) at 25°C (77°F)

F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	515.7	406.5	235.6	148.0	91.4	68.1	54.4	45.9	31.3	26.5	13.5
1.65V	498.5	394.3	230.7	145.2	89.8	67.1	53.7	45.3	30.9	26.2	13.4
1.70V	476.1	378.3	224.2	141.5	87.7	65.7	52.7	44.5	30.5	25.9	13.2
1.75V	446.1	356.9	215.3	136.4	84.9	63.8	51.3	43.5	29.8	25.4	13.0
1.80V	405.9	328.0	203.1	129.4	81.0	61.1	49.4	42.0	28.9	24.7	12.7
1.85V	351.1	288.1	185.8	119.5	75.4	57.3	46.6	39.9	27.6	23.7	12.2

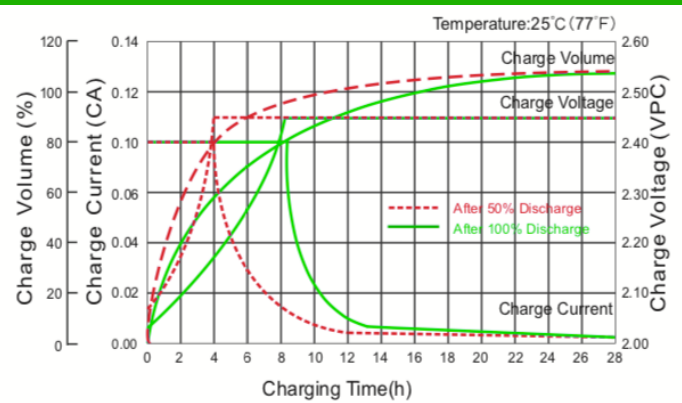
Constant Power Discharge (CP, Unit: W/Battery) at 25°C (77°F)

F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	5538.0	4488.0	2706.0	1746.0	1092.0	822.0	660.0	558.0	385.8	329.4	168.0
1.65V	5496.0	4446.0	2688.0	1734.0	1080.0	816.0	654.0	554.4	382.8	326.4	166.8
1.70V	5304.0	4302.0	2622.0	1692.0	1062.0	798.0	642.0	546.0	377.4	322.2	165.0
1.75V	5058.0	4116.0	2544.0	1644.0	1032.0	780.0	630.0	535.2	370.2	316.8	162.0
1.80V	4686.0	3840.0	2424.0	1566.0	990.0	750.0	606.0	519.0	360.0	308.4	158.4
1.85V	4122.0	3420.0	2244.0	1458.0	924.0	708.0	576.0	494.4	344.4	296.4	153.0

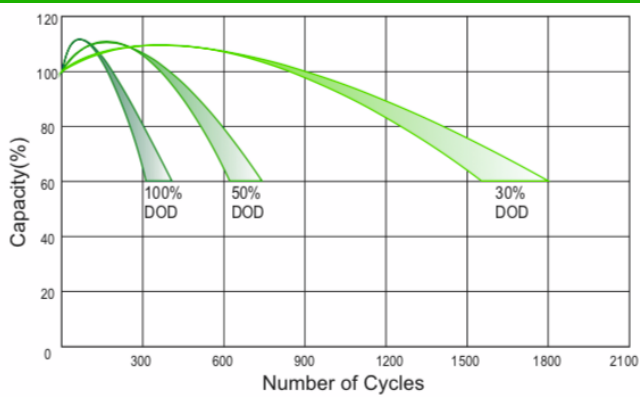
Discharge Characteristics Curve



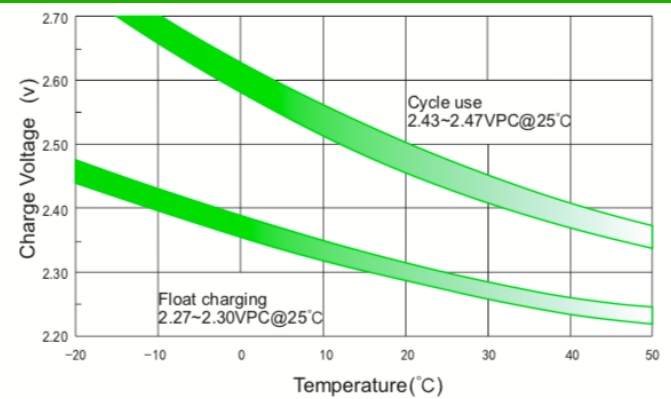
Charge Characteristic Curve For Cycle Use (IU)



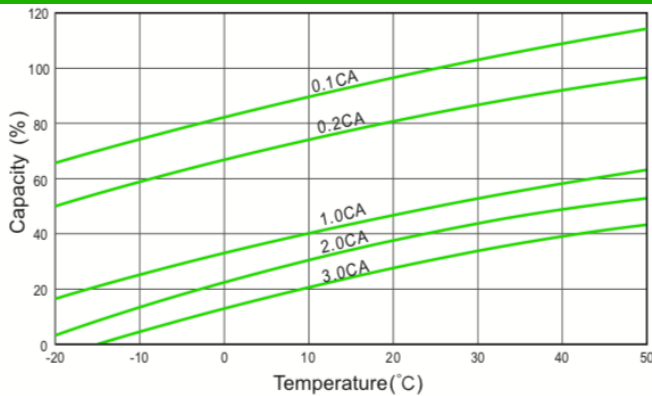
Cycle Life In Relation To Depth of Discharge



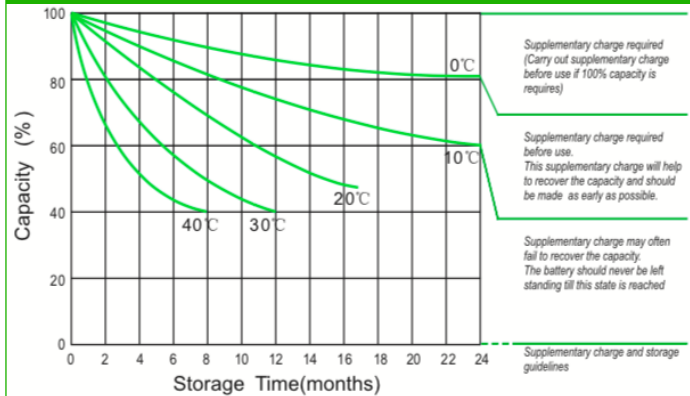
Relationship Between Charging Voltage And Temperature



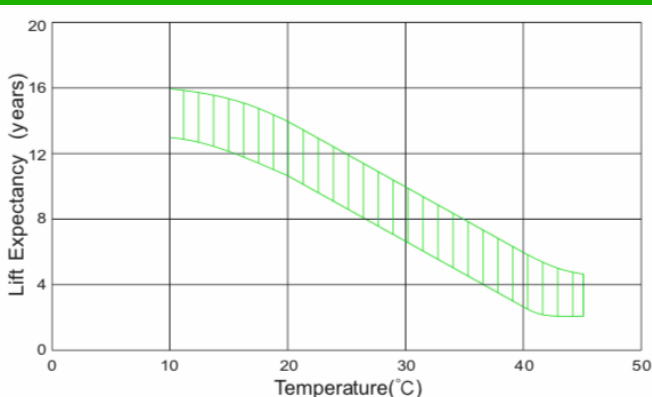
Temperature Effects on Capacity



Storage Characteristics



Effect of Temperature on Long Term Life



Relationship of OCV and State of Charge (20°C)

