



## **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 is 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.

## **Applications:**

- Telecommunications
- Uninterrupted Power
- Supplies
- Solar System
- Wind Power SystemAuto Control System

241±1.5mm (9.41in)

· Medical equipments

Voltage Per Unit	12V
Nominal Capacity	150Ah @20hour-rate to 1.75V per cell @25°C
Weight	Approx. 44.5Kg ±2% (97.02lbs)
Internal Resistance	Approx. 4.2mΩ
Terminal	R8.0
Max. Discharge Current	1500A (5sec)
Design Life	12 years floating Eurobat (20°C): 10-12 years Long Life
Recommended Max. Charging Current	45.0A
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: -20°C~60°C Charge: 0°C~50°C

## Dimensions: Length 483±1.5mm (19.0in) Width 170±1.5mm (6.69in) Height 241±1.5mm (9.41in)

Self Discharge batteric 25°C a Monthl

**Normal Operating Temperature Range** 

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.

-20°C~60°C

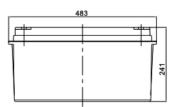
Container Material A.B.S. UL94-HB, UL94-V0 Optional.

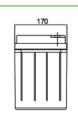
Storage:

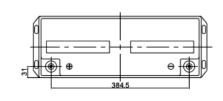
25°C±5°C

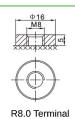
## Technical Drawings:

Total Height









Constant Current Discharge (CC, Unit: A) at 25°C (77°F)											
F.V. / Time	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	317.8	244.9	143.5	86.2	52.7	39.7	31.4	26.5	18.1	15.3	7.79
1.65V	307.2	237.6	140.5	84.6	51.8	39.1	31.0	26.1	17.9	15.1	7.72
1.70V	293.4	228.0	136.5	82.5	50.6	38.3	30.4	25.7	17.6	14.9	7.63
1.75V	274.9	215.0	131.1	79.5	49.0	37.2	29.6	25.1	17.2	14.7	7.50
1.80V	250.2	197.6	123.7	75.5	46.7	35.6	28.5	24.2	16.7	14.3	7.32
1.85V	216.4	173.6	113.1	69.7	43.5	33.4	26.9	23.0	15.9	13.7	7.05

**Specifications:** 

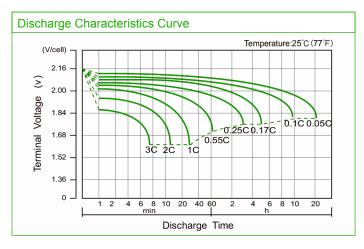
**Cells Per Unit** 

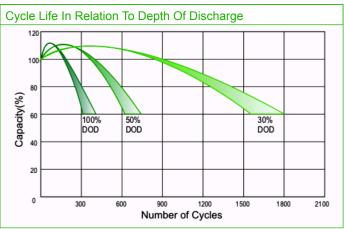
Constant	Constant Power Discharge (CP, Unit: W/Battery) at 25°C (77°F)										
F.V. / Time	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	3414.0	2706.0	1644.0	1020.0	630.0	478.8	380.4	322.2	222.6	189.6	97.2
1.65V	3384.0	2676.0	1638.0	1008.0	624.0	474.0	377.4	319.8	220.8	188.4	96.0
1.70V	3270.0	2592.0	1596.0	990.0	612.0	465.6	371.4	315.0	217.8	186.0	95.4
1.75V	3120.0	2478.0	1548.0	960.0	595.2	454.2	363.0	308.4	213.6	182.4	93.6
1.80V	2886.0	2310.0	1476.0	912.0	570.6	436.8	350.4	299.4	207.6	177.6	91.2
1.85V	2544.0	2058.0	1368.0	846.0	534.6	411.6	332.4	285.0	198.6	171.0	88.2

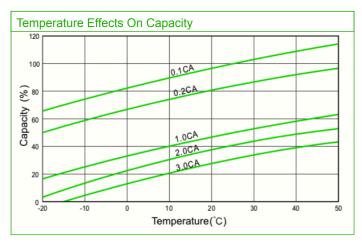


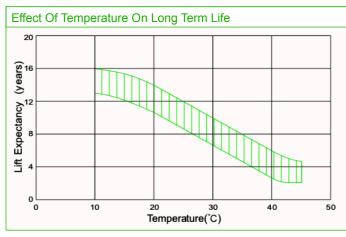


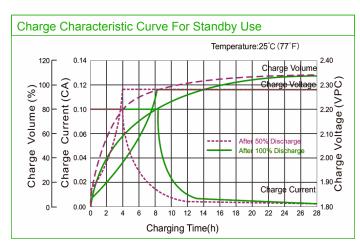


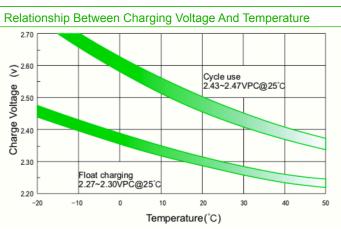


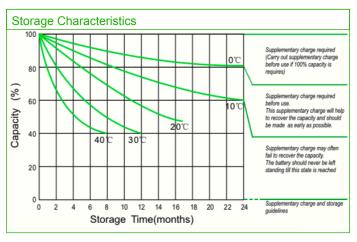


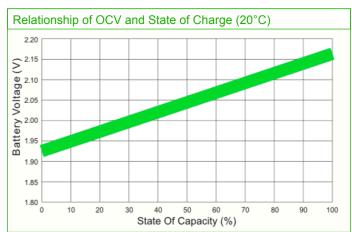












V03 22/02

