**GEL Battery** 



## **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:**

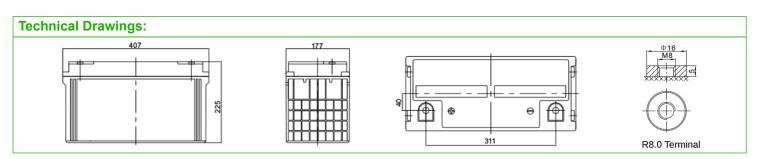
- · Telecommunications
- · Uninterrupted Power Supplies
- · Medical equipments
- · Solar System
- Wind Power System
- · Auto Control System

Length	407±1.5mm (16.0in)
Width	177±1.5mm (6.97in)
Height	225±1.5mm (8.86in)
Total Height	225+1 5mm (8 86in)

## **Specifications: Cells Per Unit** 6 Voltage Per Unit 12V 120Ah @20hour-rate to 1.75V per cell @25°C **Nominal Capacity** Weight Approx. 35.0Kg ±2% (77.18lbs) Internal Resistance Approx. 4.0mΩ **Terminal** R8.0 Max. Discharge Current 1200A (5sec) 12 years floating Design Life Eurobat (20°C): 10-12 years Long Life **Recommended Max. Charging Current** 36.0A 13.6V~13.8V @ 25°C Standby Use Voltage Temperature Compensation: -3mV/°C/Cell 14.6V~14.8V @ 25°C Cycle Use Voltage Temperature Compensation: -4mV/°C/Cell Discharge: -20°C~60°C **Operating Temperature Range** Charge: 0°C~50°C Storage: -20°C~60°C

25°C±5°C

LIVEN Valve Regulated Lead Acid (VRLA) batteries can be stored for up to 6 months at **Self Discharge** 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.



**Normal Operating Temperature Range** 

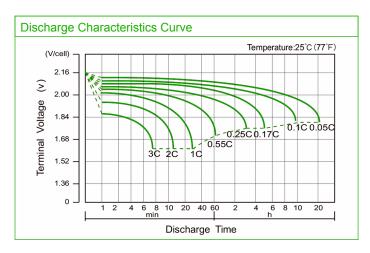
Constant Current Discharge (CC, Unit: A) at 25°C (77°F)											
F.V. / Time	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	259.6	200.1	116.0	68.3	42.2	31.7	25.1	21.2	14.4	12.2	6.24
1.65V	251.0	194.1	113.6	67.0	41.5	31.3	24.8	20.9	14.3	12.1	6.18
1.70V	239.7	186.2	110.4	65.3	40.5	30.6	24.3	20.5	14.1	11.9	6.10
1.75V	224.6	175.7	106.0	63.0	39.2	29.7	23.7	20.1	13.8	11.7	6.00
1.80V	204.4	161.5	100.0	59.7	37.4	28.5	22.8	19.4	13.4	11.4	5.85
1.85V	176.8	141.8	91.5	55.2	34.8	26.7	21.5	18.4	12.8	10.9	5.64

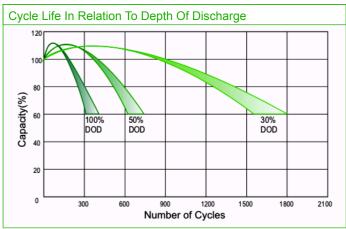
Constant Power Discharge (CP, Unit: W/Battery) at 25°C (77°F)											
F.V. / Time	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	2790.0	2208.0	1332.0	804.0	504.6	382.8	304.2	257.4	178.2	151.8	77.4
1.65V	2766.0	2190.0	1320.0	798.0	499.8	379.2	301.8	255.6	177.0	150.6	76.8
1.70V	2670.0	2118.0	1290.0	780.0	489.6	372.6	297.0	252.0	174.0	148.8	76.2
1.75V	2550.0	2028.0	1254.0	756.0	476.4	363.0	290.4	247.2	171.0	146.4	75.0
1.80V	2358.0	1890.0	1194.0	720.0	456.6	349.8	280.2	239.4	166.2	142.2	73.2
1.85V	2076.0	1686.0	1104.0	672.0	427.8	329.4	265.8	228.0	159.0	136.8	70.8

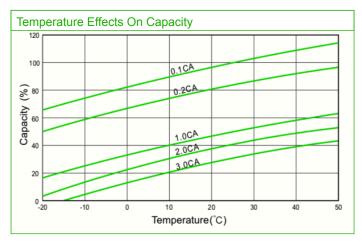


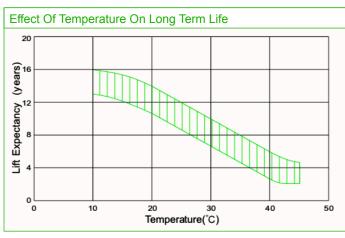


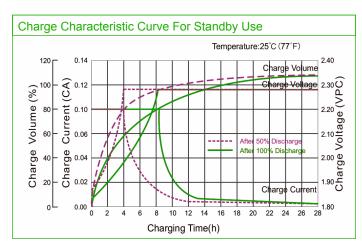


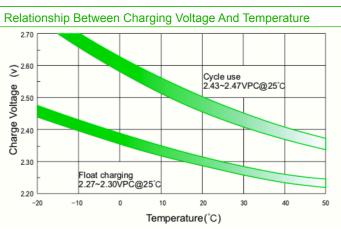


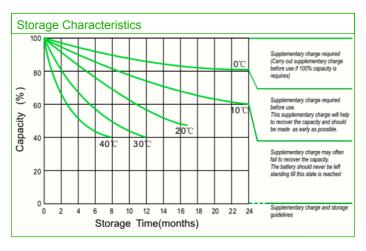


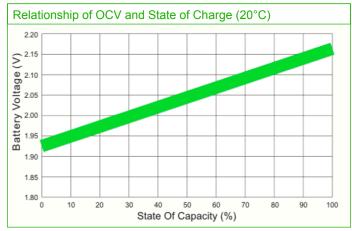












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