



Specifications:

Cells Per Unit	6
Voltage Per Unit	12V
Nominal Capacity	65Ah @20hour-rate to 1.75V per cell @25°C
Weight	Approx. 21.0Kg ±2% (46.31lbs)
Internal Resistance	Approx. 6.0mΩ
Terminal	R6.0
Max. Discharge Current	650A (5sec)
Design Life	12 years floating Eurobat (20°C): 10-12 years Long Life
Recommended Max. Charging Current	19.5A
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 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.

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.

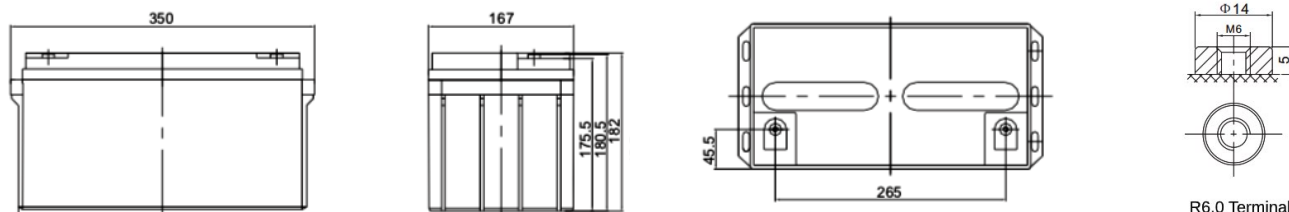
Applications:

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

Dimensions:

Length	350±1.5mm (13.8in)
Width	167±1.5mm (6.57in)
Height	182±1.5mm (7.17in)
Total Height	182±1.5mm (7.17in)

Technical Drawings:



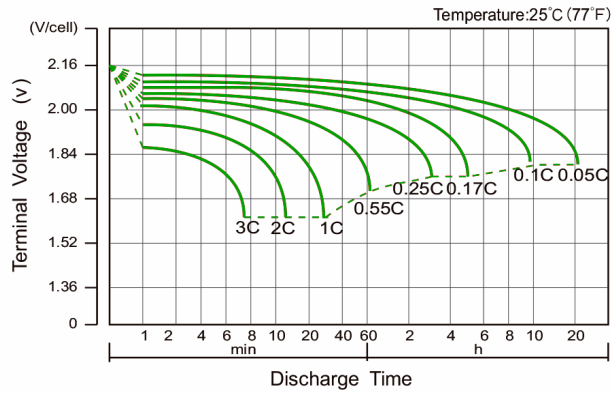
Constant Current Discharge (CC, Unit: A) at 25°C (77°F)

F.V. / Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	216.5	159.2	118.8	68.18	39.40	23.07	17.17	13.60	11.46	7.82	6.63	3.38
1.65V	208.5	153.9	115.3	66.75	38.65	22.68	16.91	13.41	11.32	7.74	6.56	3.35
1.70V	198.0	147.0	110.6	64.86	37.67	22.16	16.56	13.16	11.13	7.62	6.47	3.31
1.75V	184.2	137.7	104.3	62.29	36.32	21.45	16.08	12.82	10.87	7.46	6.35	3.25
1.80V	165.8	125.4	95.9	58.75	34.47	20.46	15.42	12.34	10.51	7.23	6.18	3.17
1.85V	140.9	108.4	84.24	53.76	31.83	19.05	14.46	11.66	9.98	6.91	5.93	3.05

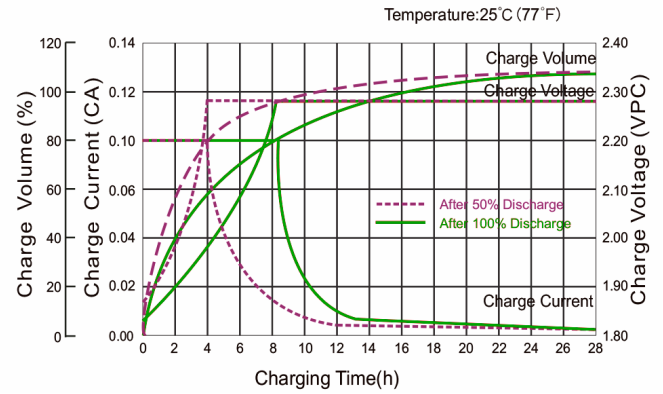
Constant Power Discharge (CP, Unit: W/Battery) at 25°C (77°F)

F.V. / Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	2202.0	1626.0	1248.0	744.0	442.2	262.2	196.8	156.6	132.6	91.8	78.0	39.9
1.65V	2178.0	1614.0	1236.0	738.0	438.0	259.8	195.0	155.4	131.4	91.2	77.4	39.6
1.70V	2094.0	1554.0	1194.0	720.0	428.4	254.4	191.4	153.0	129.6	89.4	76.8	39.2
1.75V	1980.0	1482.0	1146.0	702.0	415.2	247.8	186.6	149.4	127.2	88.2	75.0	38.5
1.80V	1812.0	1374.0	1068.0	666.0	396.0	237.6	179.4	144.6	123.0	85.8	73.2	37.6
1.85V	1566.0	1212.0	948.0	618.0	368.4	222.0	169.2	136.8	117.6	81.6	70.2	36.3

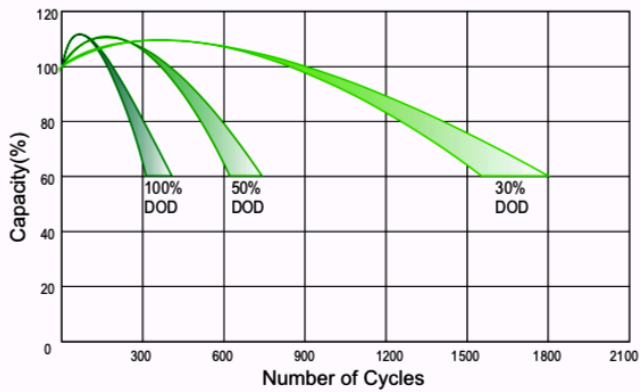
Discharge Characteristics Curve



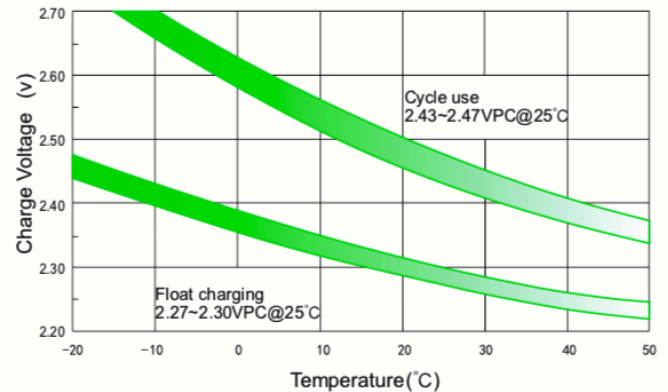
Charge Characteristic Curve For Standby Use



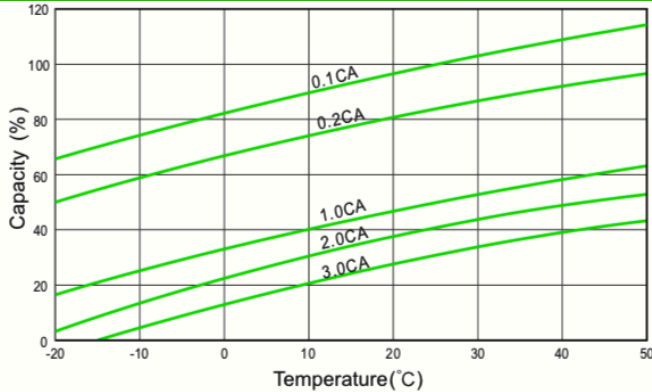
Cycle Life In Relation To Depth Of Discharge



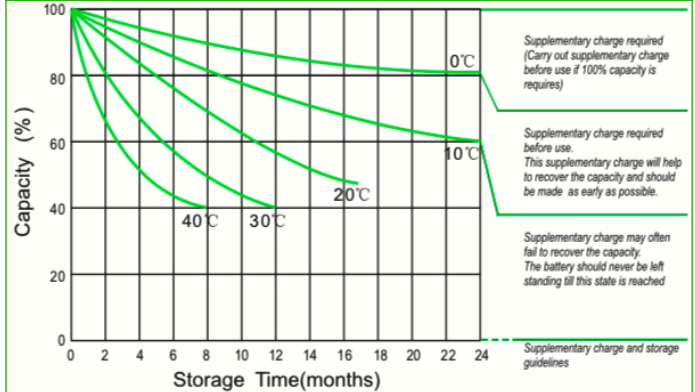
Relationship Between Charging Voltage And Temperature



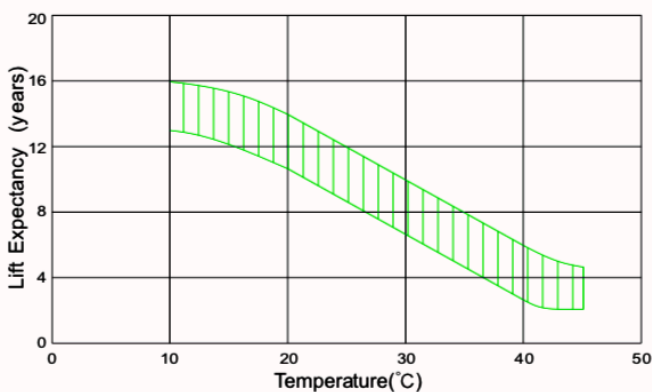
Temperature Effects On Capacity



Storage Characteristics



Effect Of Temperature On Long Term Life



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

