12V 80Ah

LVL80-12

AGM Battery



LIVEN LVL Series

AGM (Absorbent Glass Material) technology with gas recombination. VRLA (Valve Regulated Lead Acid Battery). Maintenance-Free Sealed Lead Acid Battery.
Battery with 12 years design life in float service.

Cycle use 1: Up to 260 cycles at 100% DOD.
Cycle use 2: Up to 500 cycles at 50% DOD.

Applications:

- Telecommunications
- Uninterrupted Power Supplies
- Medical equipments
- Emergency backup power supply
- Alarm and security system
- Communication power supply
- DC power supply

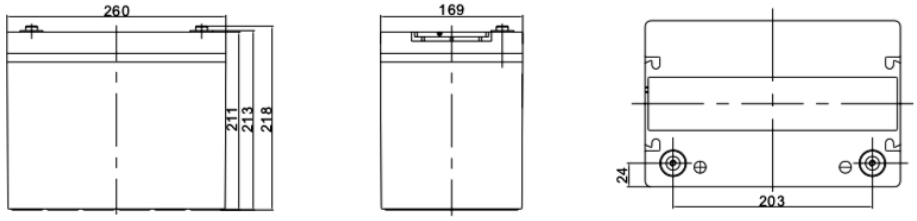
Dimensions:

Length	260±1.5mm (10.24in)
Width	169±1.5mm (6.65in)
Height	211±1.5mm (8.31in)
Total Height	218±1.5mm (8.58in)

Specifications:

Cells Per Unit	6
Voltage Per Unit	12V
Nominal Capacity	80.0Ah @10hour-rate to 1.80V per cell @25°C
Weight	Approx. 22.30Kg ±2% (49.16lbs)
Internal Resistance	Approx. 6.5mΩ
Terminal	R6.7
Max. Discharge Current	750A (5sec)
Design Life	12 years (Float charging) Eurobat (20ºC): 10-12 years Long Life
Recommended Maximum Charging Current	24A
Standby Use Voltage	13.5V~13.8V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	14.4V~15.0V @ 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:



R6.7 Terminal

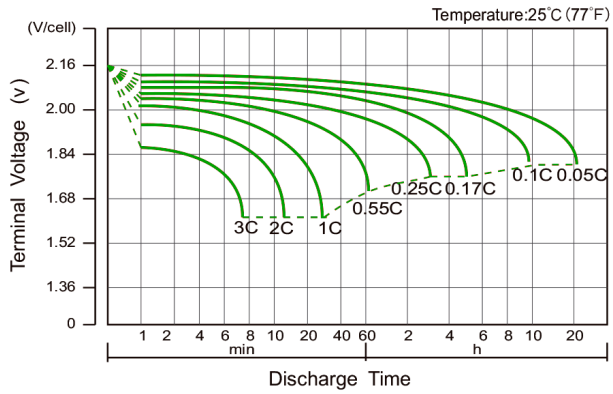
Constant Current Discharge (CC, Unit: A) at 25ºC (77ºF)

F.V./ Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	6h	10h	20h
1.60V	273.9	186.3	127.6	77.6	47.5	29.7	23.1	18.1	15.4	10.28	8.47	4.43
1.65V	262.1	178.3	122.1	74.3	45.5	28.4	22.1	17.4	14.7	9.83	8.36	4.37
1.70V	255.9	174.1	119.2	72.5	44.4	27.7	21.6	17.0	14.4	9.60	8.24	4.31
1.75V	249.7	169.8	116.3	70.7	43.3	27.0	21.0	16.5	14.0	9.37	8.11	4.25
1.80V	247.6	168.4	115.3	70.1	43.0	26.8	20.9	16.4	13.9	9.28	8.00	4.19

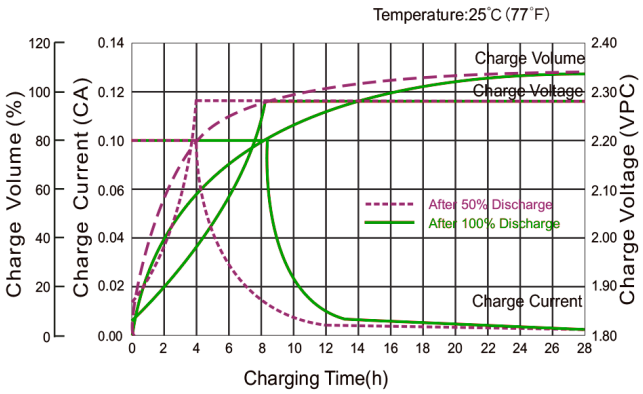
Constant Power Discharge (CP, Unit: W/Battery) at 25ºC (77ºF)

F.V./ Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	6h	10h	20h
1.60V	3417.6	2325.0	1591.8	968.4	593.2	370.2	287.8	226.4	191.9	128.2	105.8	55.4
1.65V	3272.4	2226.0	1524.0	927.0	567.9	354.4	275.5	216.7	183.7	122.8	104.3	54.6
1.70V	3194.4	2172.6	1488.0	904.8	554.3	346.0	269.0	211.5	179.3	119.8	102.8	53.8
1.75V	3116.4	2119.8	1451.4	882.6	540.8	337.5	262.4	206.4	175.0	116.9	101.2	53.0
1.80V	3090.0	2102.4	1439.4	874.8	536.3	334.7	260.2	204.7	173.5	115.9	99.8	52.3

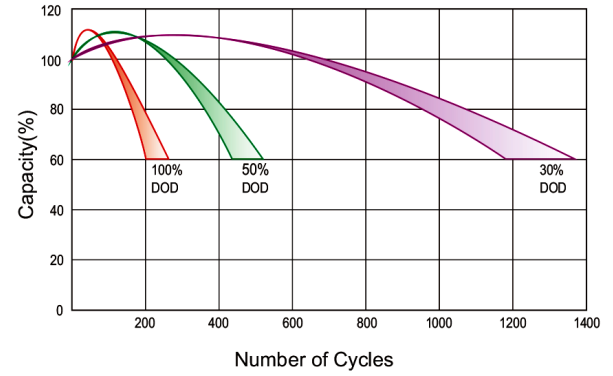
Discharge Characteristics Curve



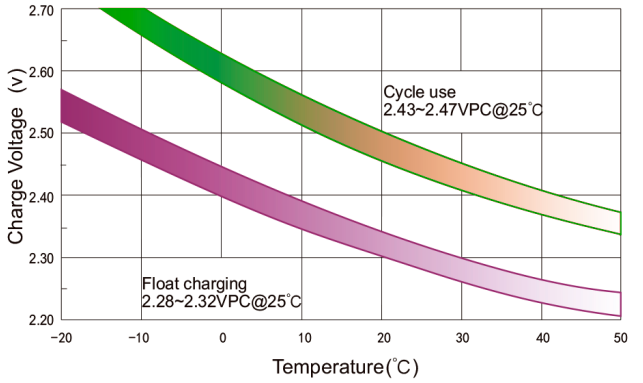
Charge Characteristic Curve For Standby Use



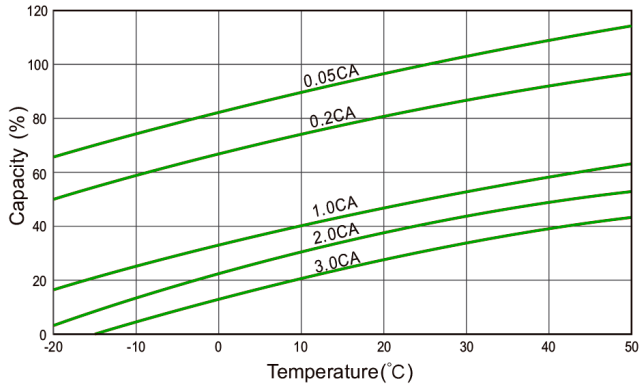
Cycle Life In Relation To Depth Of Discharge



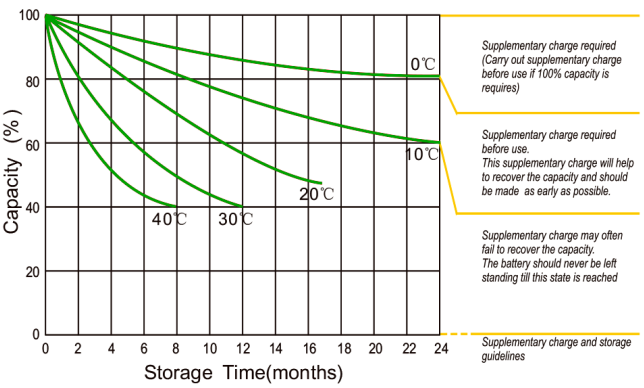
Relationship Between Charging Voltage And Temperature



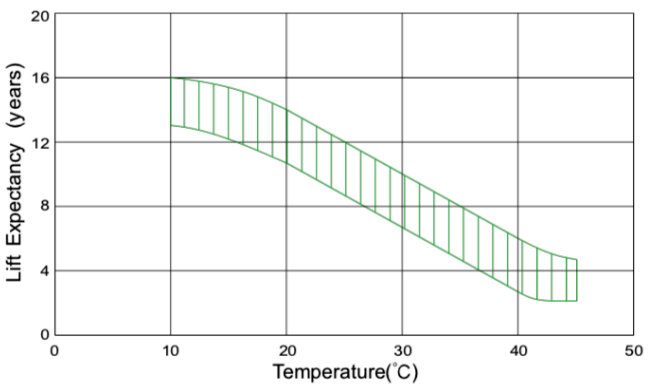
Temperature Effects On Capacity



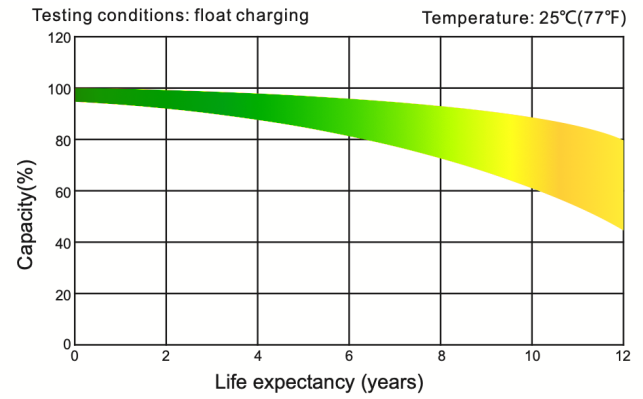
Storage Characteristics



Effect Of Temperature On Long Term Life



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.

V01 26/10