



LIVEN LEV Series

AGM (Absorbent Glass Material) technology with gas recombination. VRLA (Valve Regulated Lead Acid Battery). LEV (Liven Electric Vehicle) series is specially designed for frequent discharge deep cycle application. Maintenance-Free Sealed Lead Acid Battery.

Cycle use 1: Up to 600 cycles at 80% DOD.

Cycle use 2: Up to 1200 cycles at 50% DOD.

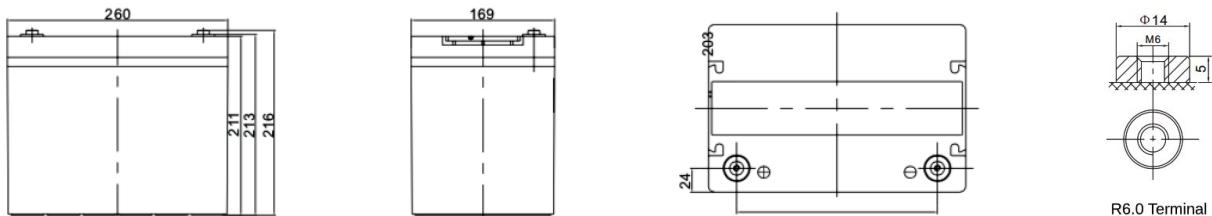
Applications:

- Electric Vehicle
- Industrial equipment
- Floor machines
- Forklifts
- Golf cart
- Mobility
- Aerial lifts and Robotics
- No-idle solutions

Dimensions:

Length	260±1.5mm (10.2in)
Width	169±1.5mm (6.65in)
Height	211±1.5mm (8.31in)
Total Height	216±1.5mm (8.50in)

Technical Drawings:



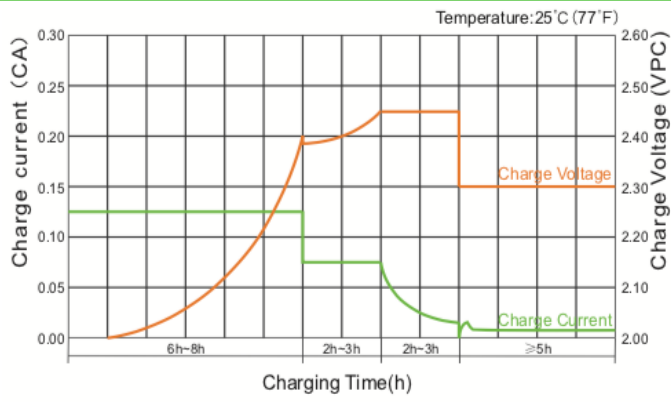
Constant Current Discharge (CC, Unit: A) at 25°C (77°F)

F.V. / Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	190.4	143.2	83.8	46.3	27.3	21.2	16.6	14.2	9.52	7.91	4.14	3.31
1.65V	179.9	136.9	80.4	44.7	26.5	20.5	16.2	13.8	9.41	7.82	4.07	3.26
1.70V	165.6	128.3	76.9	43.2	25.6	20.0	15.8	13.4	9.27	7.70	4.02	3.22
1.75V	151.6	119.3	73.5	41.7	24.7	19.4	15.3	13.1	9.14	7.60	3.97	3.18
1.80V	137.2	110.2	70.2	40.1	23.8	18.8	14.9	12.8	8.98	7.50	3.94	3.15
1.85V	112.1	91.4	60.5	35.9	21.8	17.4	13.9	11.9	8.43	7.06	3.74	2.99

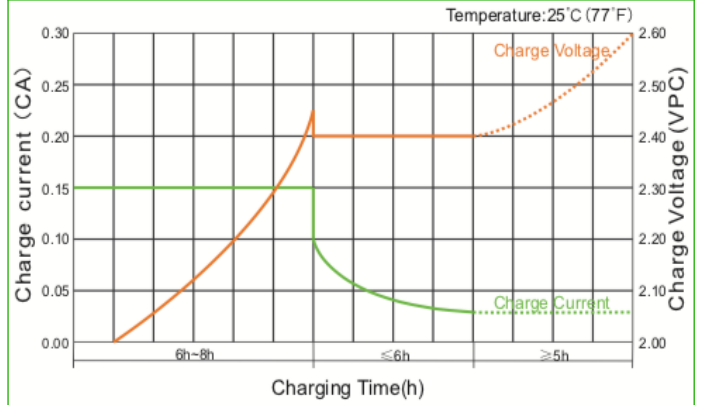
Constant Power Discharge (CP, Unit: W/Battery) at 25°C (77°F)

F.V. / Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	1941.6	1502.4	913.2	522.0	310.8	242.4	192.0	163.8	111.6	93.6	48.9	39.1
1.65V	1870.2	1457.4	885.6	507.0	302.4	236.4	187.2	160.2	110.4	92.4	48.2	38.6
1.70V	1753.2	1385.4	855.0	493.2	294.0	231.0	183.0	156.6	109.2	91.2	47.6	38.2
1.75V	1633.8	1308.0	825.6	478.2	285.0	225.0	178.8	153.0	108.0	90.0	47.2	37.7
1.80V	1504.8	1225.2	797.4	462.6	276.0	219.0	174.0	150.0	106.2	88.8	46.7	37.4
1.85V	1251.6	1030.8	693.6	417.6	254.4	203.4	162.6	139.8	100.2	84.0	44.5	35.5

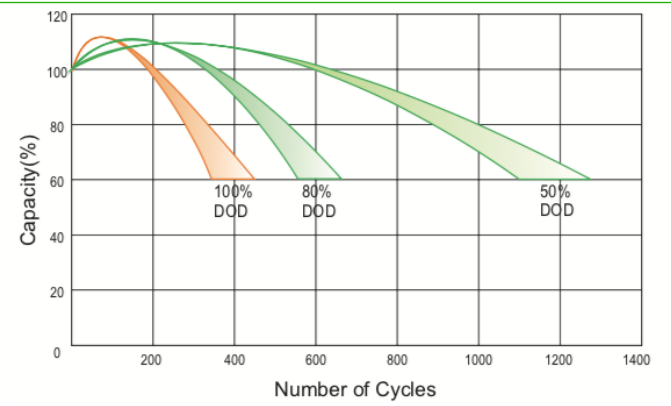
Charge Characteristic Curve For Cycle Use (IIUU)



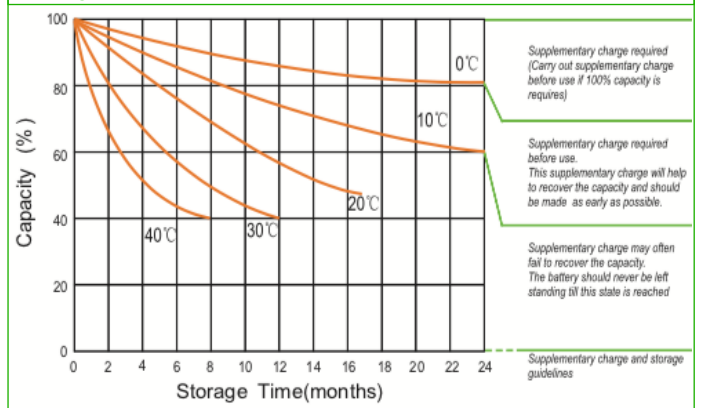
Charge Characteristic Curve For Cycle Use (IU)



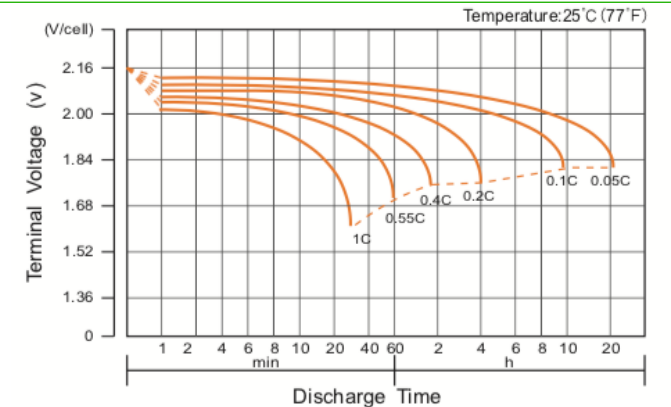
Cycle Life In Relation To Depth Of Discharge



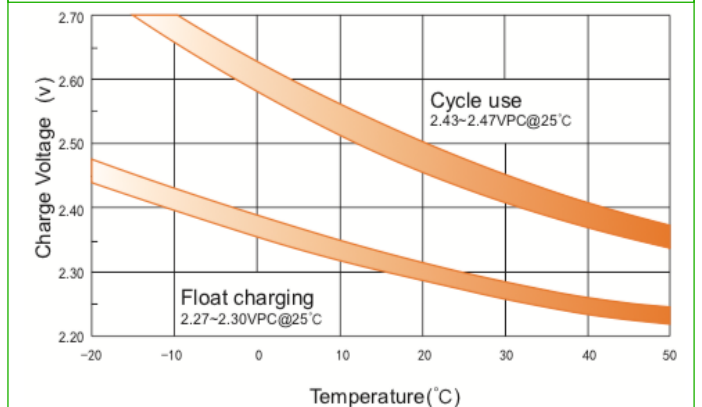
Storage Characteristics



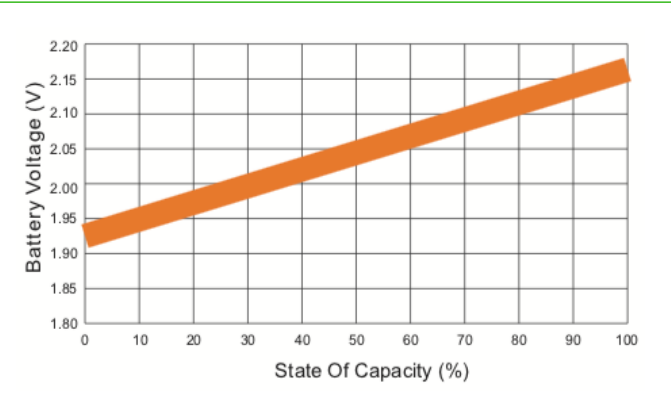
Discharge Characteristics Curve



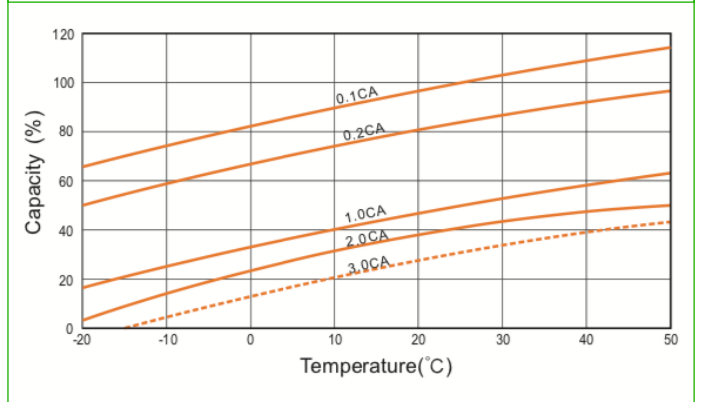
Relationship Between Charging Voltage And Temperature



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



Temperature Effects On Capacity



(Note) All above information shall be changed without prior notice. LIVEN Battery reserves the right to explain and update the latest information.