



Specifications:

Cells Per Unit	6
Voltage Per Unit	12V
Nominal Capacity	106.0Ah @20hour-rate to 1.75V per cell @25°C
Weight	Approx.30.0Kg ±2% (66.14lbs)
Internal Resistance	Approx. 5.5mΩ
Terminal	R8.0
Max. Discharge Current	1000A (5sec)
Design Life	620A
Recommended Max. Charging Current	30.0A
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: -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.

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.

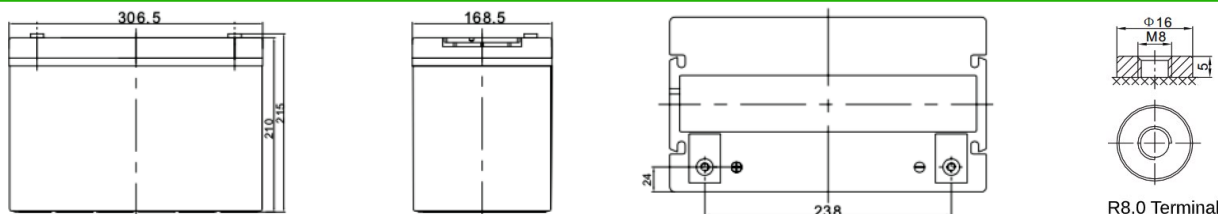
Applications:

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

Dimensions:

Length	306.5±1.5mm (12.1in)
Width	168.5±1.5mm (6.63in)
Height	210±1.5mm (8.27in)
Total Height	215±1.5mm (8.46in)

Technical Drawings:



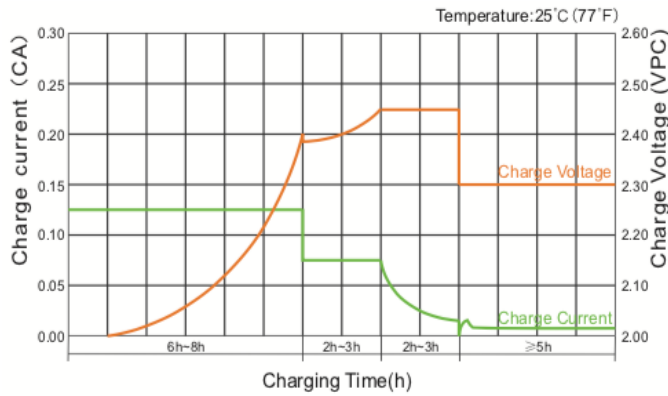
Constant Current Discharge (CC, Unit: A) at 25°C (77°F)

F.V. / Time	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	241.1	191.0	111.7	61.7	36.4	28.2	22.2	18.9	12.7	10.5	5.52
1.65V	227.9	182.6	107.2	59.6	35.3	27.4	21.6	18.4	12.5	10.4	5.43
1.70V	209.8	171.0	102.5	57.7	34.1	26.6	21.0	17.9	12.4	10.3	5.36
1.75V	192.0	159.1	98.0	55.5	32.9	25.8	20.5	17.5	12.2	10.1	5.30
1.80V	173.8	146.9	93.6	53.4	31.7	25.0	19.9	17.0	12.0	10.0	5.25
1.85V	142.1	121.9	80.6	47.9	29.1	23.1	18.5	15.9	11.2	9.41	4.98

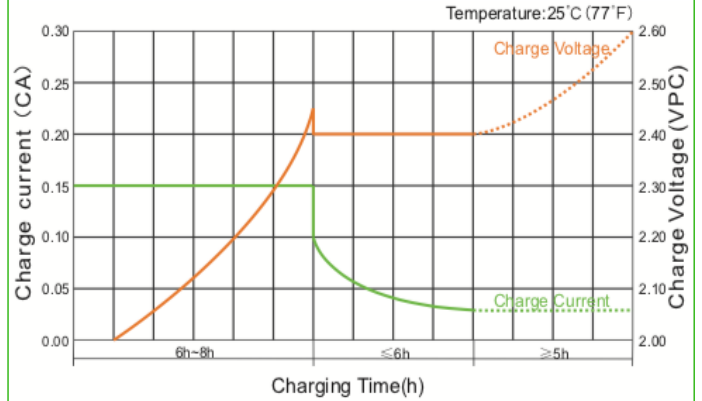
Constant Power Discharge (CP, Unit: W/Battery) at 25°C (77°F)

F.V. / Time	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	2459.4	2002.8	1217.4	696.0	414.6	323.4	255.6	218.4	148.8	124.2	65.4
1.65V	2368.8	1943.4	1180.8	675.6	403.2	315.0	249.6	213.6	147.6	123.0	64.2
1.70V	2220.6	1847.4	1140.0	657.6	391.8	307.8	243.6	208.8	145.2	121.2	63.6
1.75V	2069.4	1744.2	1101.0	637.8	379.8	300.0	238.2	204.0	143.4	120.0	63.0
1.80V	1906.2	1633.2	1062.6	616.8	368.4	291.6	232.2	199.8	141.6	118.8	62.4
1.85V	1585.2	1374.6	924.6	556.8	339.0	270.6	216.6	186.6	133.2	111.6	59.2

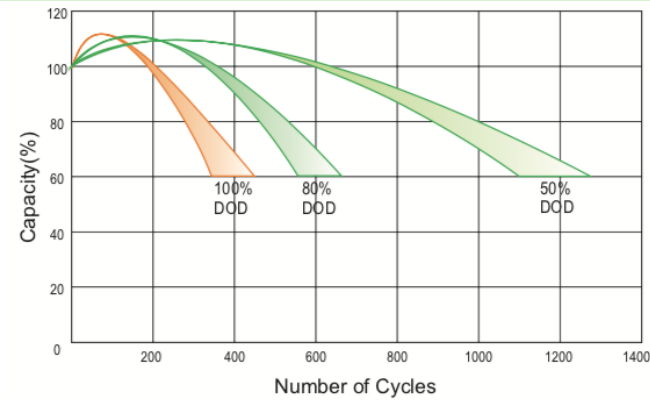
Charge Characteristic Curve For Cycle Use (IIUU)



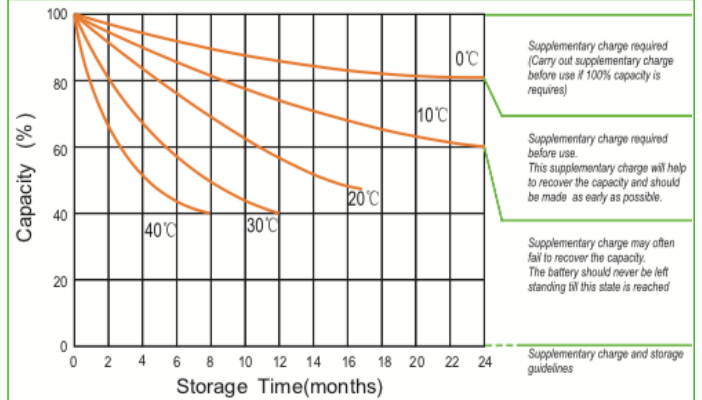
Charge Characteristic Curve For Cycle Use (IUI)



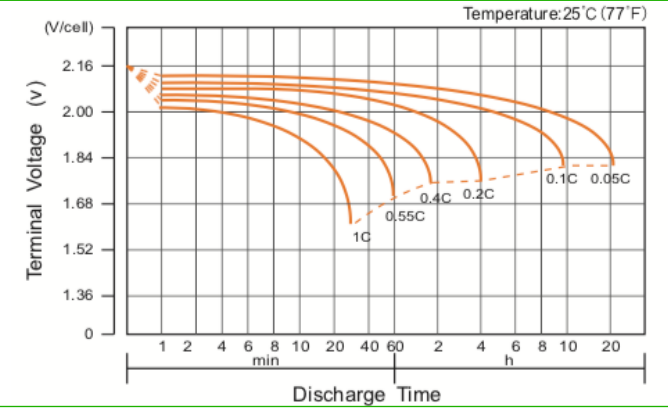
Cycle Life In Relation To Depth Of Discharge



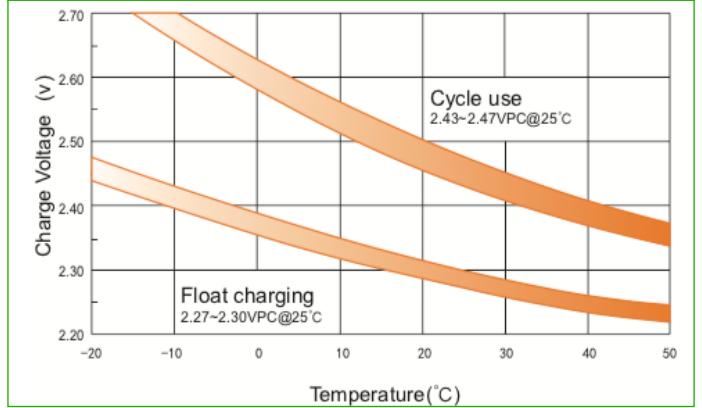
Storage Characteristics



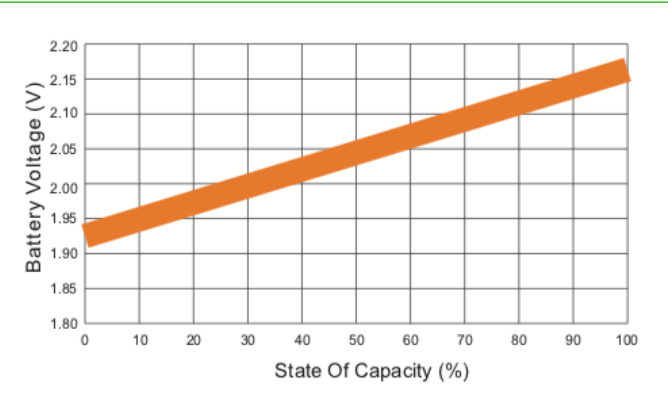
Discharge Characteristics Curve



Relationship Between Charging Voltage And Temperature



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



Temperature Effects On Capacity

