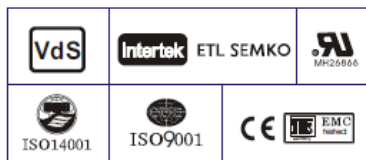




LIVEN LEVG Series-GEL Deep Cycle

- For longer cycle life: special paste formula, over dimensioned negative plate, optimised manufacturing process, additives for deep discharge. Up 12 years
- Special anti-vibration desing
- Thick plates, special formula of paste and plate manufacturing process for a long service life
- ABS material: increase the strenght of battery container
- Special plate desing, long cycle life
- Using special lead-calcium alloy to boost up the grid anti-corrosive performance and extend the battery using life
- Special separators boost up the battery internal performance
- High termal capacity, reduce the risk of thermal runaway and drying up, can be used in por environment
- High gas recombination efficiency
- Little wáter losing, no electrolyte stratification phenomenon
- Long storage time
- Good deep discharge resilience performance



Application:

- Railway and marine systems
- Electric toys
- Electric tools
- Portable power
- Vehicle in place of walking
- Wheelchairs
- Lawn mowers
- Medical equipments.
- Golf trolleys and golf cart

Specification:

Nominal Voltage
Nominal Capacity(20HR)
Dimension
Approx Weight
Terminal
Container Material
Max. Discharge Current
Internal Resistance
Operating Temp.Range
Nominal Operating Temp. Range
Cycle Use
Standby Use
Capacity affected by Temperature
Self Discharge

12V
60.0AH
Length 259±3mm (10.2 inches)
Width 168±2mm (6.61 inches)
Container Height 190±2mm (7.48 inches)
Total Height (with Terminal) 190±2mm (7.48 inches)
Approx 19.7 kg (43.4lbs)
T6
ABS
600A (5s)
Approx 8.2mΩ
Discharge : -20~55°C (-4~131°F)
Charge : 0~40°C (32~104°F)
Storage : -20~50°C (-4~122°F)
25±3°C (77±5°F)
Initial Charging Current less than 12A.Voltage 14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C
No limit on Initial Charging Current Voltage 13.5V~13.8V at 25°C(77°F)Temp. Coefficient -20mV/°C
40°C (104°F) 103%
25°C (77°F) 100%
0°C (32°F) 86%

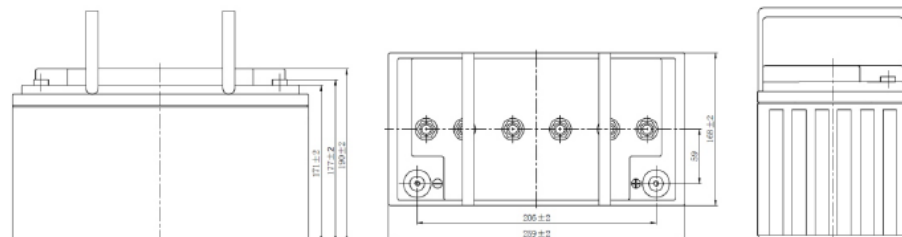
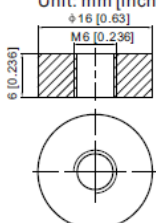


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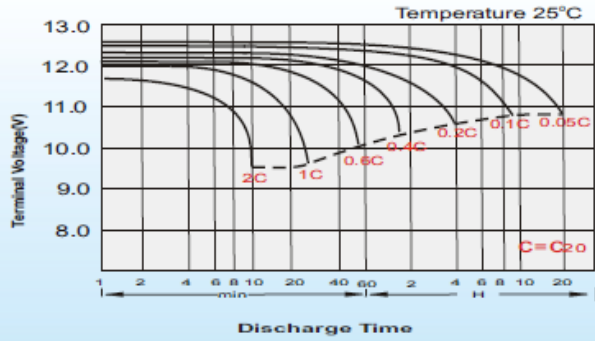
LIVEN LEVG series batteries may be stored for up to 9 months at 25°C(77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.

Outer Dimensions:

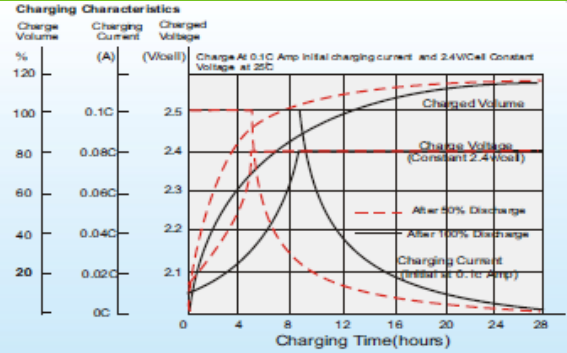
■ T6 Terminal Unit: mm [inches]



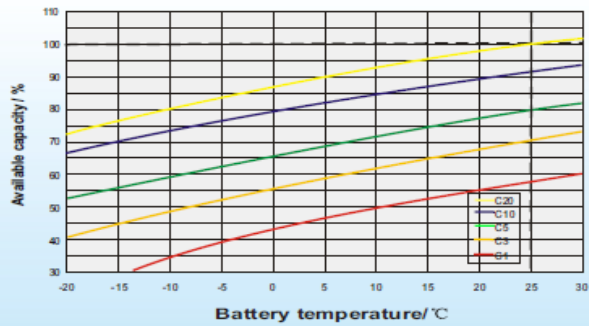
Discharge Characteristics



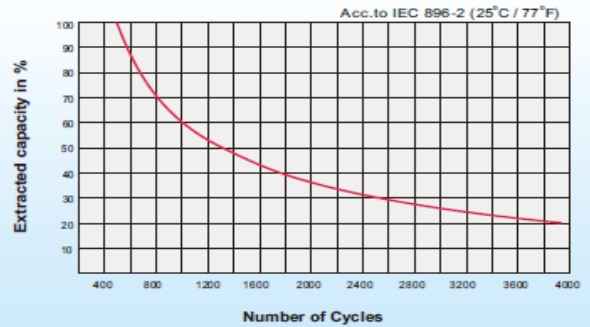
Capacity Retention Characteristic



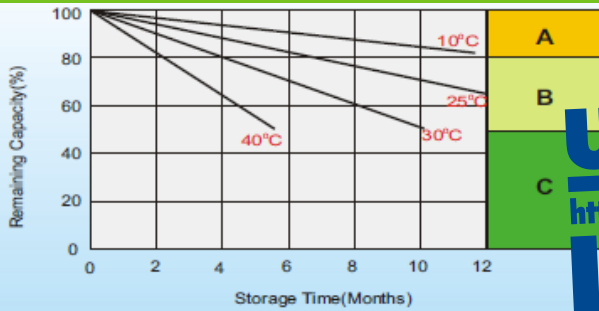
Temperature Effects in Relation to Capacity



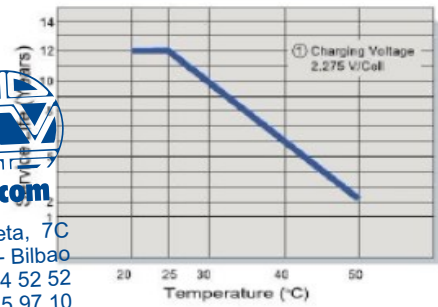
Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics



Tickle (or Float) Service Life



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

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	67.8	58.7	52.8	42.0	32.0	26.7	16.8	12.6	10.3	8.86	7.68	6.20	5.26	2.93
1.80V/cell	81.5	67.9	60.1	46.8	35.9	29.7	18.2	13.6	11.1	9.41	8.15	6.54	5.54	3.00
1.75V/cell	94.5	77.3	66.8	51.0	38.3	31.4	19.1	14.3	11.5	9.71	8.41	6.70	5.62	3.04
1.70V/cell	105.0	84.1	71.6	54.0	40.0	32.8	20.0	14.7	11.8	9.98	8.64	6.85	5.71	3.09
1.67V/cell	112.4	88.4	74.7	56.1	41.6	34.0	20.6	15.2	12.1	10.2	8.81	6.95	5.80	3.13
1.60V/cell	122.5	94.6	79.9	59.4	43.9	35.6	21.3	15.7	12.5	10.5	9.01	7.05	5.89	3.16

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

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	127.4	111.2	100.8	80.8	61.9	51.9	32.7	24.7	20.3	17.4	15.2	12.3	10.5	5.85
1.80V/cell	150.8	126.6	113.1	89.1	69.0	57.4	35.3	26.5	21.6	18.5	16.1	13.0	11.0	5.99
1.75V/cell	172.3	142.4	124.5	96.3	73.1	60.5	36.9	27.7	22.5	19.0	16.5	13.2	11.1	6.07
1.70V/cell	188.6	153.5	132.5	101.4	76.1	62.9	38.6	28.6	23.0	19.5	17.0	13.5	11.3	6.16
1.67V/cell	199.6	159.5	137.0	104.6	78.6	64.8	39.5	29.3	23.5	19.9	17.3	13.7	11.5	6.22
1.60V/cell	213.7	168.2	145.1	109.7	82.4	67.5	40.7	30.1	24.1	20.4	17.6	13.9	11.6	6.27