LIVEN LVG Series-GEL

- Long discharge time. Up to 12 years.
- Suitable for standby power and energy storage power use
- Special plate design, long cycle lifetime
- Using special lead-calcium alloy to boost up the grid anti-corrosive performance and extend the battery using lifetime
- Special separator to boost up the battery inter-nal performance
- High thermal capacity, reduce the risk of ther-mal runaway and drying up, can be used in poor environment
- High gas recombination efficiency
- Little water losing, no electrolyte stratification phenomenon
- Long storage time
- Good deep discharge resilience performance
- Using nano-fumed silica, with small particle size, and big specific surface





Teléfono: 94 474 52 52 Fax: 94 475 97 10 Telecommunication backup E-mail: ukai@ukai.come Power plants

- Medical equipments
- Uninterrupted power supplies
- Elevators emergency

- Wheelchairs
- Railway and marine systems
- Electric tools
- · Golf trolleys and golf cart
- Solar and wind mill units





47, CE





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

85.0AH Length 305±3mm (12.01 inches) Width 168±2mm (6.61 inches) Container Height 207±3mm (8.15 inches) Total Height (with Terminal) 213±3mm (8.38 inches)

Approx 26.7 kg (59.8lbs)

T6

ABS

850A (5s)

Approx6.0mΩ

Discharge: -20~55°C (-4~131°F) Charge : 0~40°C (32~104°F) : -20~50°C (-4~122°F) Storage

25±3°C (77±5°F)

Initial Charging Current less than 17A. Voltage

14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C

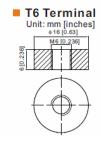
No limit on Initial Charging Current Voltage

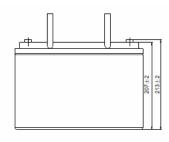
13.5V~13.8V at 25°C(77°F)Temp. Coefficient -20mV/°C

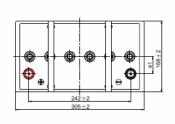
40°C (104°F) 103% 25°C (77°F) 100% 86% (32°F) 0°C

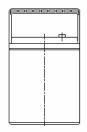
LIVEN LVG series batteries may be stored for up to 9 months at 25° C(77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.

Outer Dimensions:

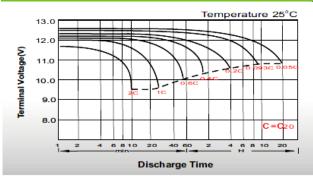






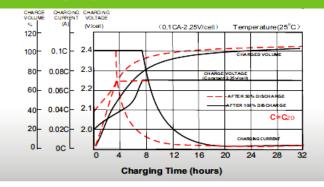


Discharge Characteristics

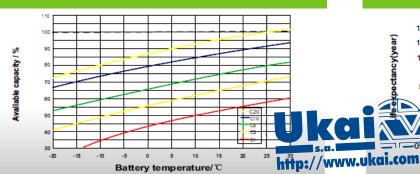


12V 85AH

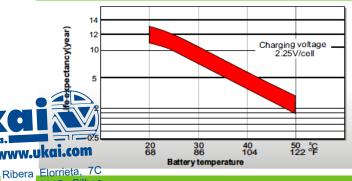
Float Charguing Characteristics



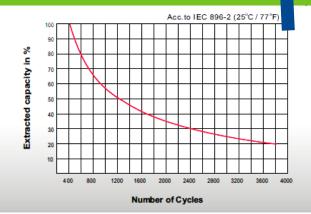
Temperature Effects in Relation to Capacity





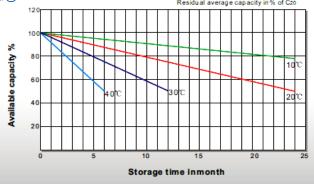


Cycle Life in Relation to Depth of Discharge



48015 - Bilbao Effect 97 252 Temperature on Long Term Float Life





Constant Current Discharge (CC, Unit: A) at 25°C (77°F) F.V/Time 20min 30min 45min 1h 2h 3h 4h

F.V/Time	20min	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	20h
1.85V/cell	71.9	56.4	43.1	36.0	22.9	17.4	14.4	12.5	10.8	9.52	8.59	7.85	7.32	4.08
1.80V/cell	82.4	63.1	47.5	39.8	24.7	18.7	15.3	13.1	11.3	10.0	9.00	8.25	7.64	4.25
1.75V/cell	92.6	69.4	51.3	42.6	26.2	19.7	16.0	13.6	11.7	10.3	9.29	8.50	7.80	4.34
1.70V/cell	99.7	74.3	54.5	45.1	27.8	20.5	16.6	14.0	12.1	10.7	9.56	8.73	7.98	4.39
1.67V/cell	103.8	77.2	56.4	46.8	28.5	21.2	17.0	14.3	12.3	10.8	9.71	8.84	8.07	4.43
1.60V/cell	112.5	82.6	60.6	49.6	29.7	22.0	17.6	14.8	12.6	11.1	9.88	9.03	8.23	4.50

Constant Power Discharge (CP, Unit: W) at 25°C (77°F)														
F.V/Time	20min	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	20h
1.85V/cell	137.6	108.8	83.5	70.2	44.7	34.1	28.4	24.6	21.3	18.9	17.1	15.6	14.6	8.14
1.80V/cell	155.6	120.4	91.4	77.1	48.1	36.4	30.0	25.7	22.3	19.7	17.9	16.4	15.2	8.47
1.75V/cell	172.9	131.2	98.1	82.1	50.8	38.4	31.3	26.7	23.0	20.4	18.4	16.9	15.5	8.63
1.70V/cell	184.3	139.3	103.4	86.3	53.6	39.9	32.2	27.4	23.8	21.0	18.9	17.3	15.8	8.73
1.67V/cell	189.6	143.2	106.3	89.1	54.8	41.0	32.9	27.9	24.1	21.3	19.2	17.5	16.0	8.81
1.60V/cell	203.2	151.9	113.4	94.1	56.7	42.4	34.1	28.7	24.6	21.7	19.4	17.8	16.3	8.92