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 area.

Application:

- Telecommunication backup
- Power plants
- Medical equipments
- Uninterrupted power supplies
- · Elevators emergency
- Wheelchairs
- Railway and marine systems

LVG85-1

LVG-series GE

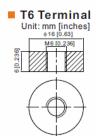
- Electric tools
- · Golf trolleys and golf cart
- Solar and wind mill units

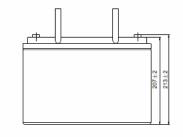
Specification:

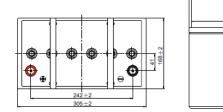
Nominal Voltage	12V							
Nominal Capacity(20HR)	85.0AH							
	Length	305±3mm (12.01 inches)						
Dimension	Width	168±2mm (6.61 inches)						
Dimension	Container Height	207±3mm (8.15 inches)						
	Total Height (with Terminal)	213±3mm (8.38 inches						
Approx Weight	Approx 26.7 kg (59.8lbs)							
Terminal	Т6							
Container Material	ABS							
Max. Discharge Current	850A (5s)							
Internal Resistance	Approx6.0mΩ							
Operating Temp.Range	Discharge : -20~55°C (-4~131°F) Charge : 0~40°C (32~104°F) Storage : -20~50°C (-4~122°F)							
Nominal Operating Temp. Range	25±3°C (77±5°F)							
Cycle Use	Initial Charging Current less th 14.4V~15.0V at 25°C(77°F)Ter	•						
	No limit on Initial Charging Current Voltage							
Standby Use	13.5V~13.8V at 25° C(77° F)Temp. Coefficient -20mV/°C							
Capacity affected by	40°C (104°F)	103%						
	25°C (77°F)	100%						
Temperature	<u>0°C (32°F)</u>	86%						
Self Discharge	LIVEN LVG series batteries may at 25° C(77°F) and then a freshe							

red for up to 9 months arge is required. For higher temperatures the time interval will be shorter.

Outer Dimensions:







Energy

Pag. 1



12V 85AH

ible Gal Battery

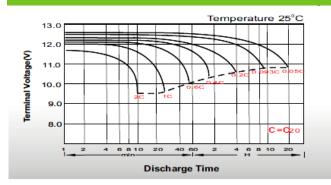
Pb



Ы, CE

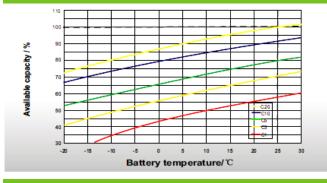
NON BATTLET OR

Discharge Characteristics

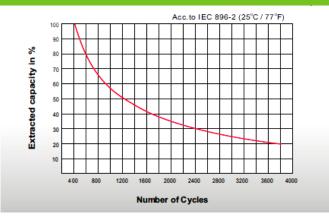


12V 85AH

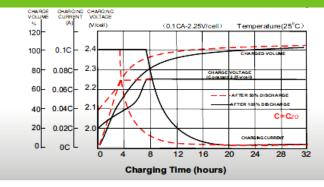
Temperature Effects in Relation to Capacity



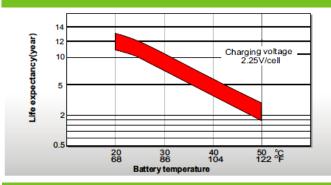
Cycle Life in Relation to Depth of Discharge



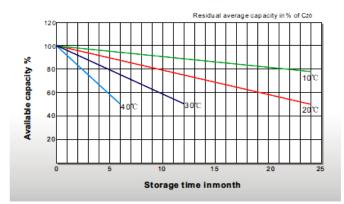
Float Charguing Characteristics



Effect of Temperature on Long Term Float Life



Effect of 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	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

Constan	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

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