



**LIVEN LVDC Series**

LVDC series are manufacturing with Lead Carbon active material to perform in partial state of charge (PSoC) applications and double separator configuration. LVDC series are AGM-GEL technology Valve Regulated Lead Acid (VRLA) suitable for Deep Cycle applications. Electrolyte + GEL for longer cycle life. Maintenance-Free Sealed Lead Acid Battery.

**Applications:**

- Wheelchairs
- Golf trolleys
- Electric sweepers
- Floor machines
- Electric vehicles
- Lawn mowers
- Portable power
- Railway and Marine systems
- Medical equipments
- Renewable energies

**Dimensions:**

Length	151.5±1.5mm (5.96in)
Width	99.5±1.5mm (3.92in)
Height	95.5±1.5mm (3.76in)
Total Height	98.2±1.5mm (3.87in)

**Specifications:**

<b>Cells Per Unit</b>	6
<b>Voltage Per Unit</b>	12V
<b>Nominal Capacity</b>	15.0Ah @20hour-rate to 1.75V per cell @25°C 13.5Ah @5hour-rate to 1.75V per cell @25°C
<b>Weight</b>	Approx. 4.0Kg ±2% (8.82lbs)

<b>Terminal</b>	R5
<b>Cycle Use Voltage</b>	14.77V~14.88V @ 25°C Temperature Compensation: -4mV/°C/Cell

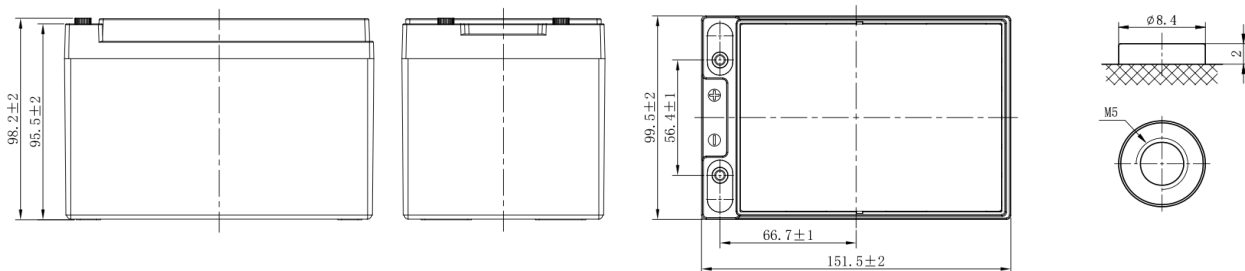
<b>Operating Temperature Range</b>	Discharge: -20°C~55°C Charge: 0°C~40°C Storage: -15°C~40°C
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<b>Normal Operating Temperature Range</b>	25°C±5°C
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**Self Discharge**  
LIVEN Valve Regulated Lead Acid (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.

<b>Container Material</b>	ABS
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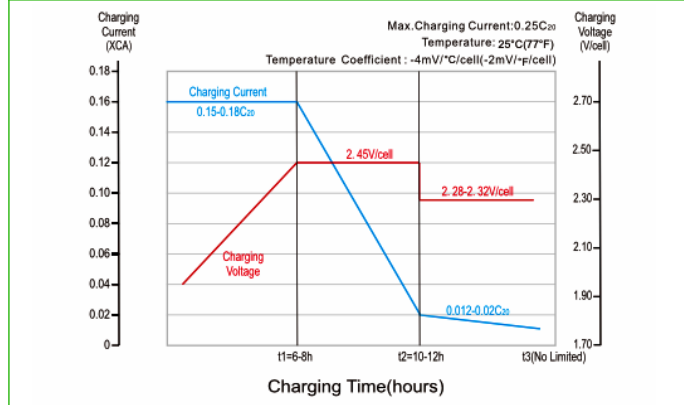
**Technical Drawings:**



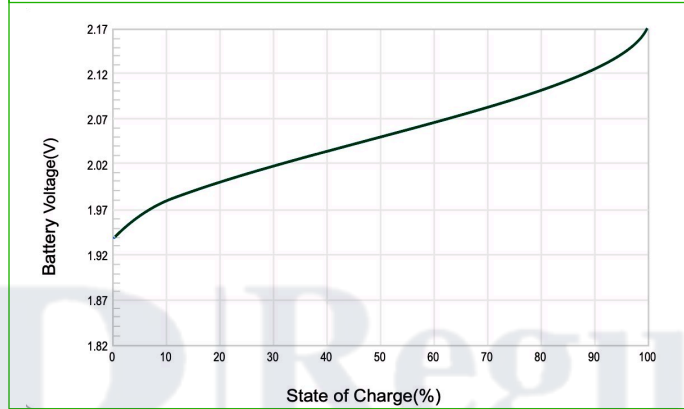
**Constant Current Discharge (CC, Unit: A) at 25°C (77°F)**

Voltage (V)	Capacity (Ah)			
	20h	10h	5h	3h
12	15	14.4	13.5	13

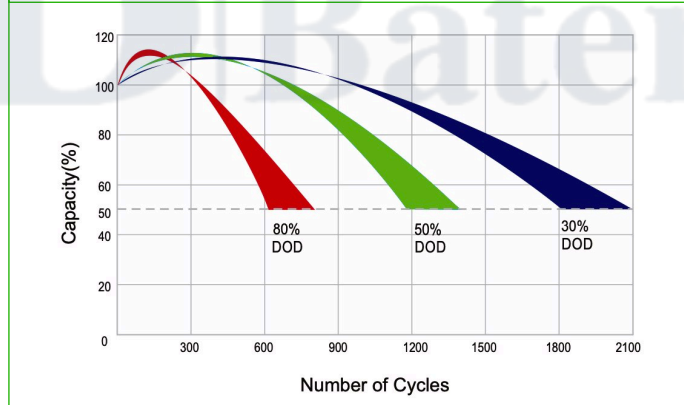
**Charging Profile**



**Relationship of OCV and State Of Charge(25°C,77°F)**



**Cycle Life in Relation to Depth Of Discharge**



**Self-discharge Characteristic**

