

LIVEN LVH Series

AGM (Absorbent Glass Material) technology with gas recombination. The LVH series Valve Regulated Lead Acid (VRLA) battery is designed for heavy load discharge applications with 15 years design life in float service. By using strong grids and specially designed active material is with lower I.R, lower self discharge rate, high power, and longer service life performance. Generally the LVH series offers 30% more power output than the standard range.

Application:

- High Power
- Uninterrupted Power Supplies
- Datacenters
- Emergency backup power supply
- Alarm and security system
- Communication power supply
- DC power supply
- Electric Tools

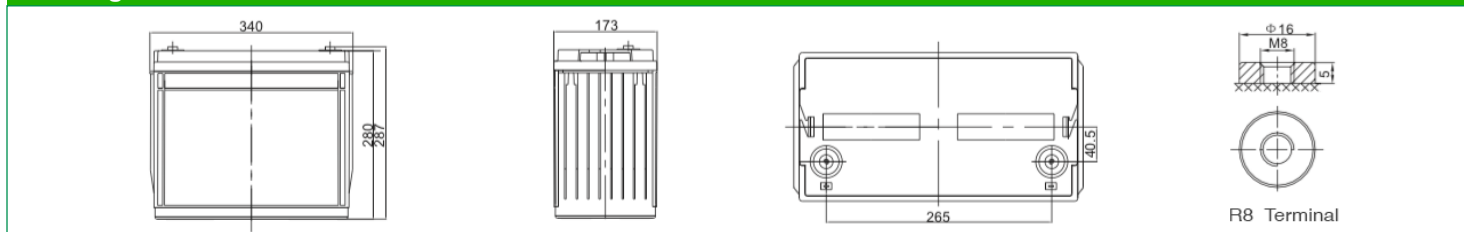
Dimensions:

Length	340±2mm (13.4 inches)
Width	173±2mm (6.81 inches)
Height	280±2mm (11.0 inches)
Total Height	287±2mm (11.3 inches)

Specification:

Cells Per Unit	6
Voltage Per Unit	12
Nominal Capacity	570W@15min-rate to 1.67V per cell @25°C
Weight	Approx. 45.0 Kg ±2%
Internal Resistance	Approx. 3.9 mΩ
Terminal	R8
Max. Discharge Current	1500A (5 sec)
Design Life	15 years floating Eurobat (20°C): >12 years Very Long Life
Recommended Maximum Charging Current	45.0 A
Reference Capacity	C20 150.0AH
Standby Use Voltage	13.6 V~13.8 V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	14.6 V~14.8 V @ 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.

Drawing:



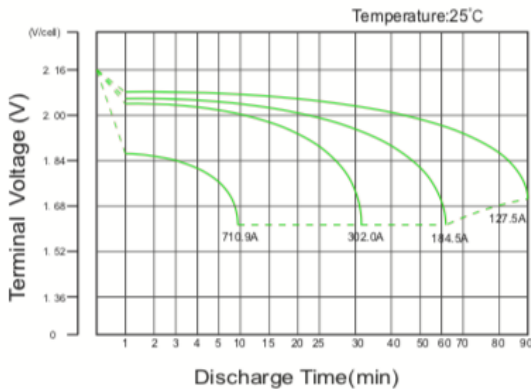
Constant Current Discharge (CC, Unit: A) at 25°C (77°F)

F.V/Time	5MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
1.60V	516.9	447.2	406.3	325.4	261.4	191.6	110.2	81.6
1.67V	478.3	419.5	381.3	308.4	243.8	182.7	105.0	77.7
1.70V	458.4	404.8	367.5	298.9	234.5	177.5	102.0	75.3
1.75V	433.0	384.5	345.1	284.9	228.1	172.5	100.3	73.6
1.80V	407.2	364.3	322.5	270.7	221.4	167.2	98.3	71.9
1.85V	380.0	342.5	299.0	255.3	213.6	161.0	95.9	69.7

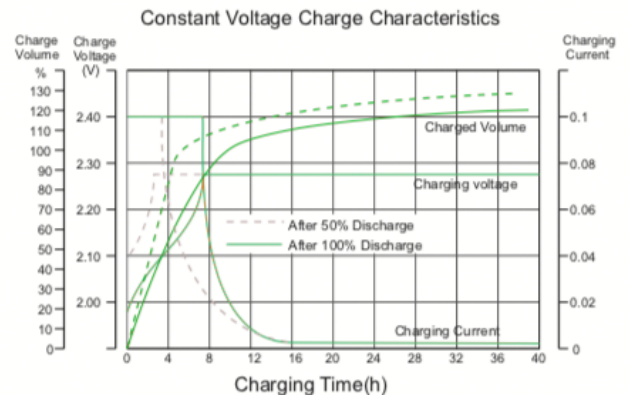
Constant Power Discharge (CP, Unit: W/Battery) at 25°C (77°F)

F.V/Time	5MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
1.60V	5532	4854	4440	3576	2880	2118	1224	906
1.67V	5166	4596	4206	3420	2718	2040	1176	876
1.70V	5010	4488	4098	3354	2640	2004	1158	858
1.75V	4794	4320	3900	3240	2604	1974	1152	846
1.80V	4572	4152	3696	3120	2562	1938	1146	840
1.85V	4356	3984	3498	3006	2526	1908	1140	834

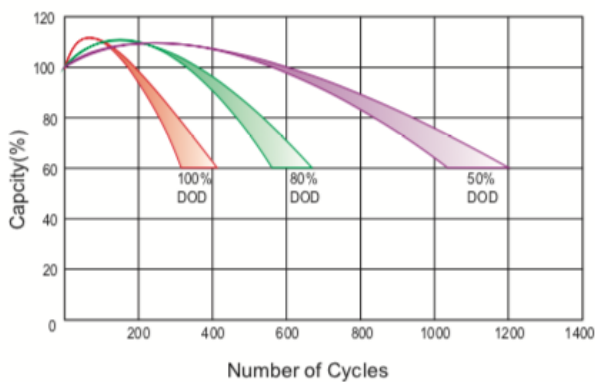
Discharge Characteristics Curve



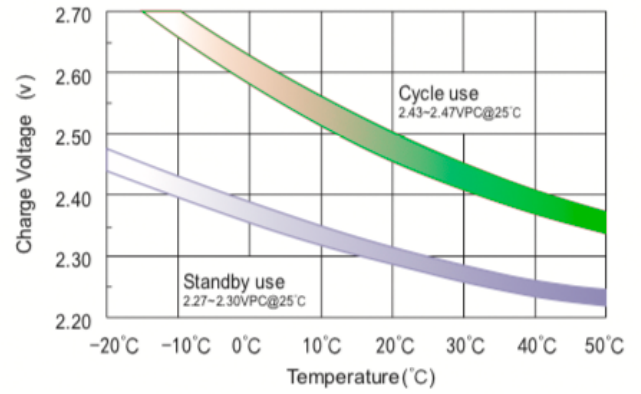
Charge Characteristic Curve For Standby Use



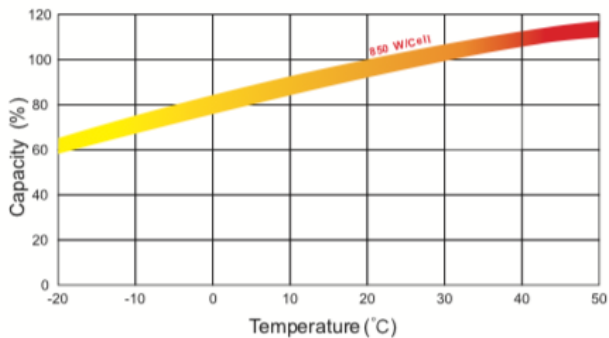
Cycle Life In Relation To Depth Of Discharge (up to 15')



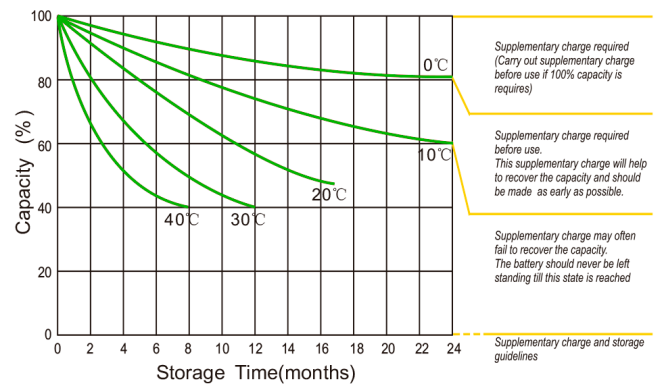
Relationship Between Charging Voltage And Temperature



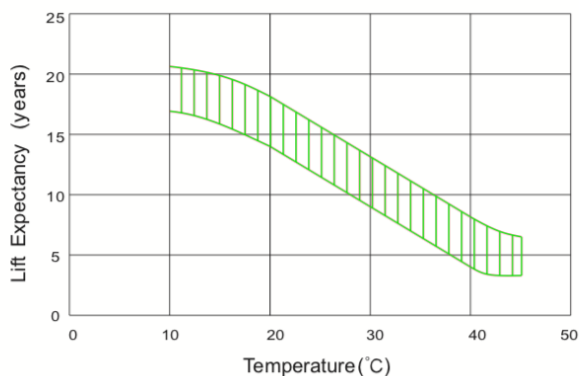
Temperature Effects On Capacity



Storage Characteristics



Effect Of Temperature On Long Term Life



Life Characteristics Of Standby Use

