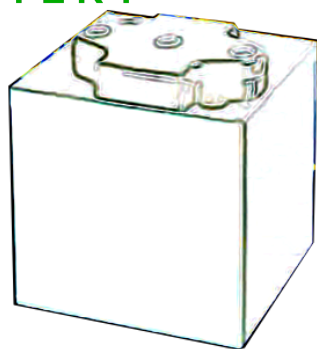




LIVEN LVH Series

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:

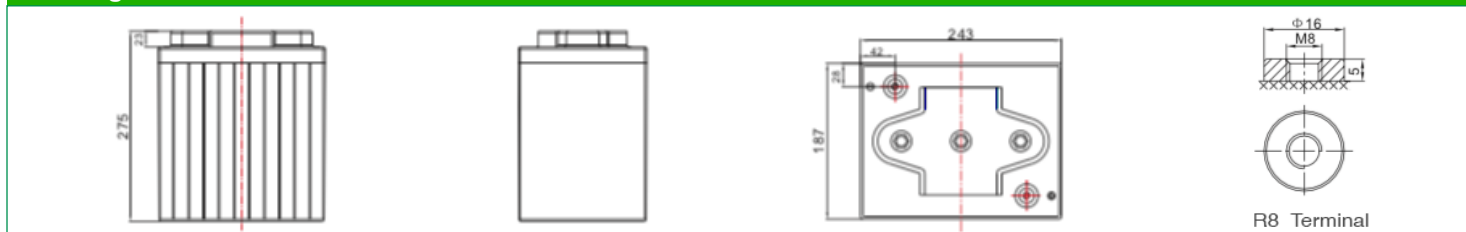
Length	243±2mm (9.57 inches)
Width	187±2mm (7.36 inches)
Height	275±2mm (10.8 inches)
Total Height	275±2mm (10.8 inches)

Specification:

Cells Per Unit	3
Voltage Per Unit	6
Nominal Capacity	850W@15min-rate to 1.67V per cell @25°C
Weight	Approx. 33.0 Kg ±2%
Internal Resistance	Approx. 1.7 mΩ
Terminal	R8
Max. Discharge Current	2250A (5 sec)
Design Life	15 years floating Eurobat (20°C): >12 years Very Long Life
Recommended Maximum Charging Current	67.5 A
Reference Capacity	C20 225.0AH
Standby Use Voltage	6.80 V~6.90 V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	7.30 V~7.40 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:



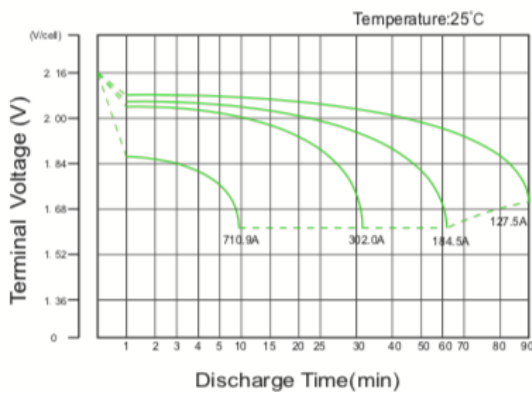
Constant Current Discharge (CC, Unit: A) at 25°C (77°F)

F.V/Time	5MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
1.60V	855.0	710.9	627.2	484.8	396.5	302.0	184.5	138.1
1.67V	791.2	666.8	588.5	459.6	369.8	287.9	175.8	131.4
1.70V	758.3	643.4	567.2	445.4	355.7	279.7	170.7	127.5
1.75V	716.2	611.2	532.6	424.5	346.0	271.8	167.9	124.6
1.80V	673.6	579.0	497.8	403.3	335.7	263.5	164.6	121.6
1.85V	628.6	544.5	461.5	380.3	324.0	253.8	160.7	118.0

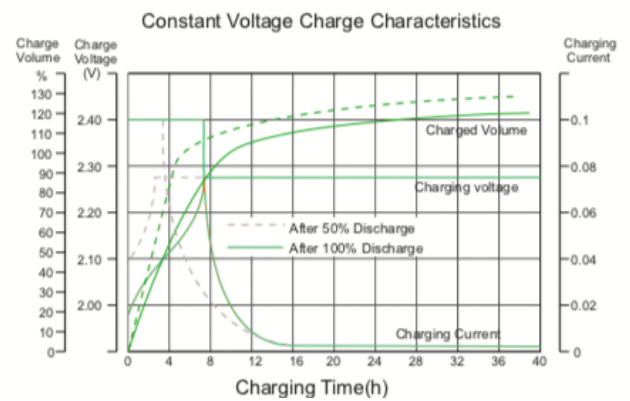
Constant Power Discharge (CP, Unit: W/Battery) at 25°C (77°F)

F.V/Time	5MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
1.60V	4575	3858	3426	2664	2187	1668	1023	768
1.67V	4275	3654	3246	2550	2058	1605	984	738
1.70V	4146	3570	3165	2499	2004	1578	969	726
1.75V	3963	3435	3009	2412	1974	1554	963	717
1.80V	3783	3300	2853	2325	1944	1527	960	711
1.85V	3600	3165	2700	2238	1914	1503	954	705

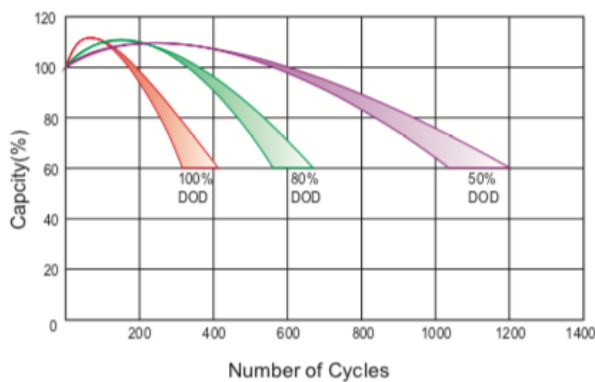
Discharge Characteristics Curve



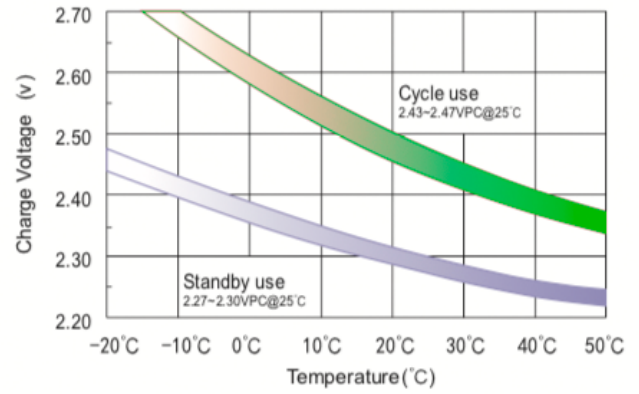
Charge Characteristic Curve For Standby Use



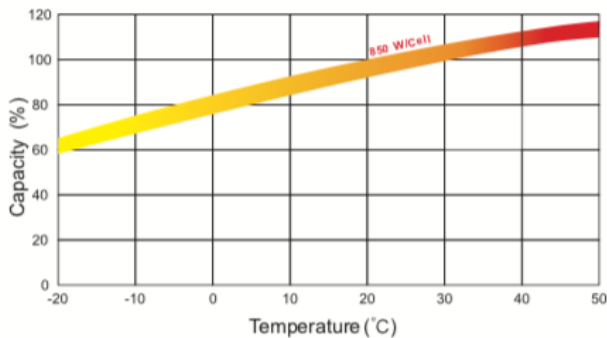
Cycle Life In Relation To Depth Of Discharge (up to 15')



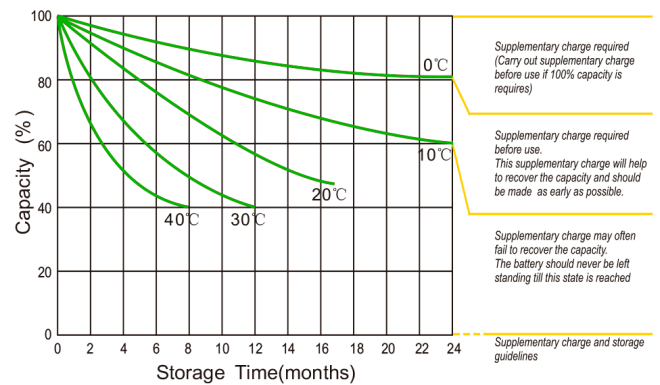
Relationship Between Charging Voltage And Temperature



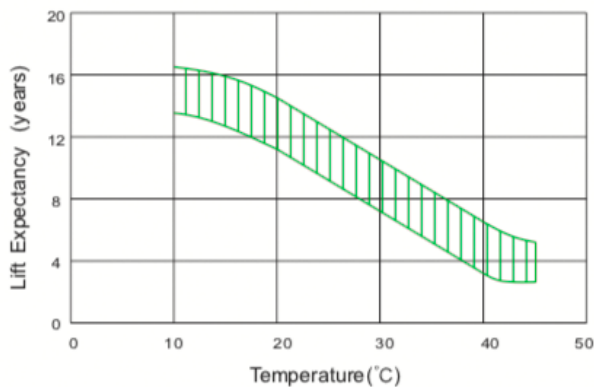
Temperature Effects On Capacity



Storage Characteristics



Effect Of Temperature On Long Term Life



Life Characteristics Of Standby Use

