



### Specifications:

Cells Per Unit	6
Voltage Per Unit	12V
Nominal Capacity	340W @15min-rate to 1.67V per cell @25°C
Weight	Approx. 29.0Kg ±2% (63.93lbs)
Internal Resistance	Approx. 5.5mΩ
Terminal	R8.0
Max. Discharge Current	900A (5sec)
Design Life	15 years floating Eurobat (20°C): >12 years Very Long Life
Recommended Maximum Charging Current	27.0A
Reference Capacity	C20 90Ah
Standby Use Voltage	13.6V~13.8V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	14.6V~14.8V @ 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

### 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.

### Applications:

- High Power
- UPS
- Datacenters
- Emergency backup PW
- Security system
- Communication power supply
- DC power supply
- Electric Tools

### Dimensions:

Length	306.5±1mm (12.1in)
Width	168.5±1mm (6.63in)
Height	210±1mm (8.27in)
Total Height	215±1mm (8.46in)

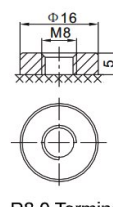
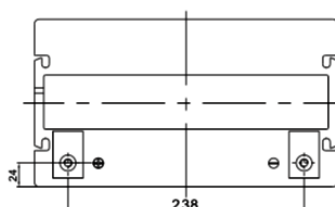
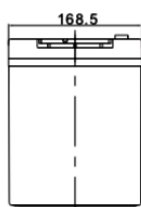
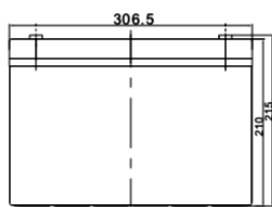
### Self Discharge

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.

### Technical Drawings:



R8.0 Terminal

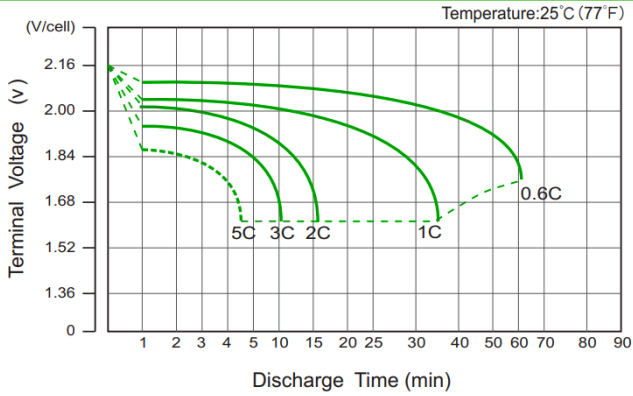
### Constant Current Discharge (CC, Unit: A) at 25°C (77°F)

F.V./ Time	5min	8min	10min	15min	20min	30min	60min	90min
1.60V	305.8	267.2	241.5	188.0	153.1	112.9	65.3	46.9
1.67V	277.5	245.0	223.2	175.4	143.9	106.8	62.3	45.0
1.70V	265.7	235.5	215.2	170.0	139.9	104.2	61.1	44.1
1.75V	245.3	219.4	201.7	160.8	132.9	99.8	58.9	42.7
1.80V	224.8	203.2	188.3	152.2	126.6	95.6	56.8	41.3
1.85V	192.9	173.1	159.5	130.9	109.9	84.6	51.3	37.7

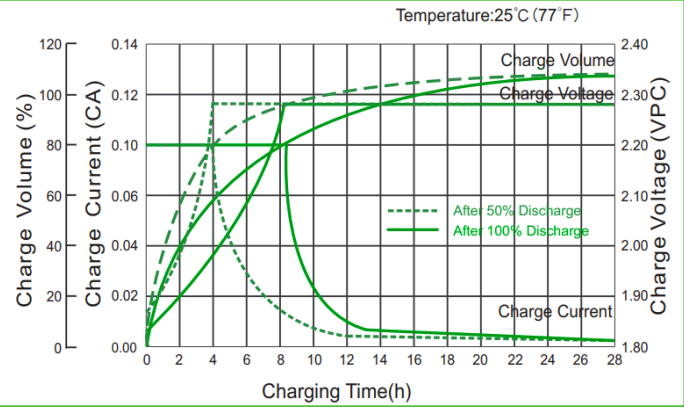
### Constant Power Discharge (CP, Unit: W/Battery) at 25°C (77°F)

F.V./ Time	5min	8min	10min	15min	20min	30min	60min	90min
1.60V	3371.4	2985.6	2725.8	2150.4	1765.8	1315.8	736.2	532.2
1.67V	3138.0	2801.4	2572.2	2040.0	1685.4	1261.8	708.6	514.8
1.70V	3034.8	2717.4	2500.8	1992.6	1648.8	1236.6	696.6	507.0
1.75V	2847.6	2568.0	2374.8	1906.8	1582.8	1195.8	677.4	493.8
1.80V	2650.8	2410.2	2242.8	1822.2	1522.8	1153.8	657.6	480.0
1.85V	2308.8	2082.0	1925.4	1584.0	1334.4	1029.0	598.2	441.6

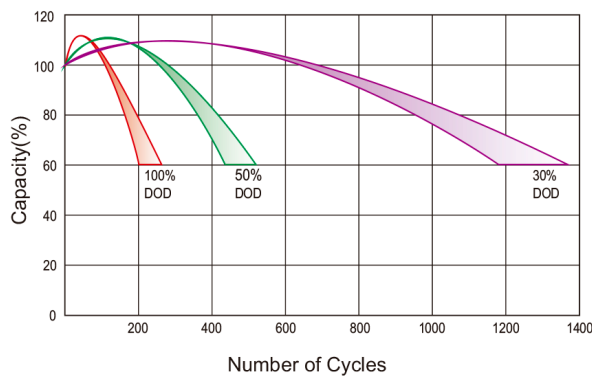
Discharge Characteristics Curve



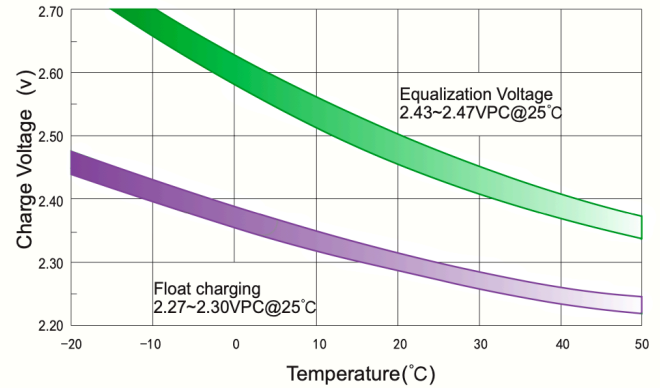
Charge Characteristic Curve For Standby Use



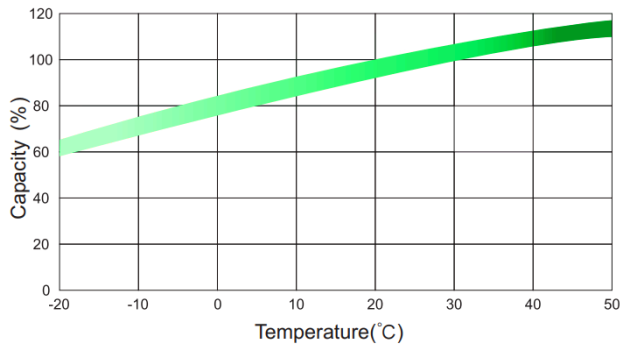
Cycle Life In Relation To Depth Of Discharge



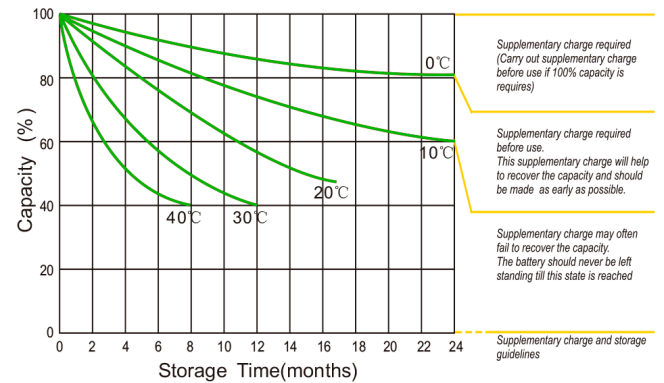
Relationship Between Charging Voltage And Temperature



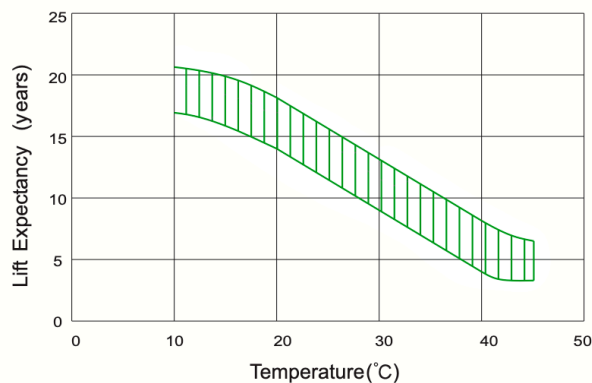
Temperature Effects On Capacity



Storage Characteristics



Effect Of Temperature On Long Term Life



Life Characteristics Of Standby Use

