# 12V 22W



### **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 8 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

Datacenters

supply

- Uninterrupted Power Supplies
  - Communication power supply

Alarm and security system

- DC power supply • Electric Tools
- · Emergency backup power
- **Dimensions:**

Length	90±1mm (3.54 inches)
Width	70±1mm (2.76 inches)
Height	101±1mm (3.98 inches)
Total Height	106±1mm (4.17 inches)

Specification:	
Cells Per Unit	6
Voltage Per Unit	12
Nominal Capacity	22W@15min-rate to 1.67V per cell @25°C
Weight	Approx. 1.65 Kg ±2%
Internal Resistance	Approx. 25 mΩ
Terminal	F2
Max. Discharge Current	55A (5 sec)
Design Life	8 years floating Eurobat (20°C): 6-9 years General Purpose
Recommended Maximum Charging Current	1.5 A
Reference Capacity	C20 5.5AH
Standby Use Voltage	13.7 V~13.9 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** 

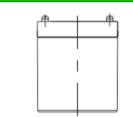
A.B.S. UL94-HB, UL94-V0 Optional.

LVH12-22V

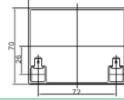
LVH series VRLA battery



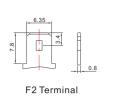
#### Drawing:







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<b>Constant Cur</b>	onstant Current Discharge (CC, Unit: A) at 25ºC (77ºF)										
F.V/Time	3MIN	5MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN		
1.60V	25.28	21.98	18.28	16.12	12.47	10.090	7.387	4.308	3.139		
1.67V	23.39	20.34	17.14	15.13	11.82	9.412	7.042	4.105	2.989		
1.70V	22.42	19.50	16.54	14.58	11.45	9.053	6.843	3.987	2.899		
1.75V	21.18	18.41	15.71	13.69	10.91	8.805	6.650	3.922	2.834		
1.80V	19.92	17.32	14.89	12.80	10.37	8.544	6.446	3.844	2.765		
1.85V	18.59	16.16	14.00	11.87	9.78	8.246	6.208	3.752	2.683		

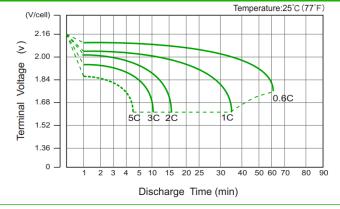
<b>Constant Pov</b>	onstant Power Discharge (CP, Unit: W/Battery) at 25ºC (77ºF)									
F.V/Time	3MIN	5MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN	
1.60V	274.8	238.8	201.6	178.8	139.2	111.0	81.6	48.0	34.8	
1.67V	256.8	223.2	190.8	169.2	133.2	105.0	78.6	46.2	33.6	
1.70V	249.0	216.6	186.6	165.0	130.8	102.0	77.4	45.0	33.0	
1.75V	238.2	207.0	179.4	157.2	126.0	100.2	76.2	45.0	32.4	
1.80V	227.4	197.4	172.2	148.8	121.2	99.0	75.0	45.0	32.4	
1.85V	216.0	187.8	165.6	141.0	117.0	97.2	73.2	44.4	31.8	

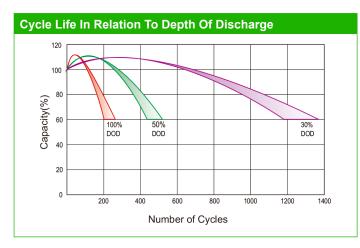
#### www.liven-battery.com

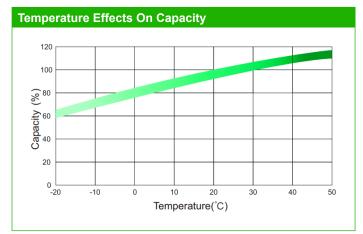


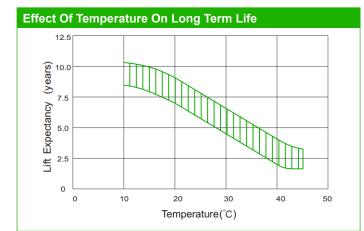
# LVH12-22W

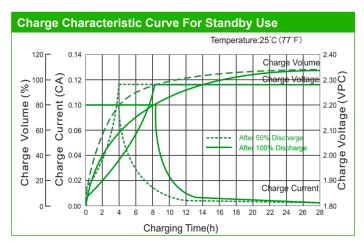




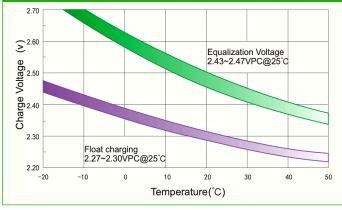




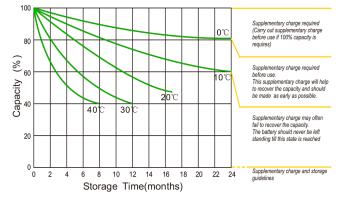




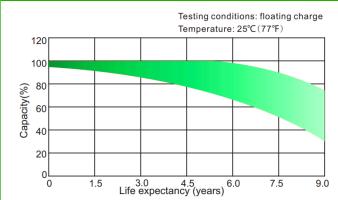








## Life Characteristics Of Standby Use



V01 20/01

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