



HRL series

HRL 1225W 12V 25W



Valve Regulated Lead Acid Battery

Maintenance-Free Sealed Lead Acid Battery.

Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99%.

Design for Standby Power Applications

【Design Life】

Up to 8 Years in Standby Service at 25°C
Eurobat (20°C) : 6-9 years, General Purpose

【Operating Temperature Range】

Nominal Operating Temperature : 25°C (77°F)
Discharge : -15°C ~ 50°C (5°F~122°F)
Charge: -15°C ~ 40°C (5°F~104°F)
Storage: -15°C ~ 40°C (5°F~104°F)

【Float Charging Voltage】

13.5 ~ 13.8 VDC/Unit at 25°C (77°F)

【Equalization Charging Voltage】

14.4 ~ 15.0 VDC/Unit at 25°C (77°F)

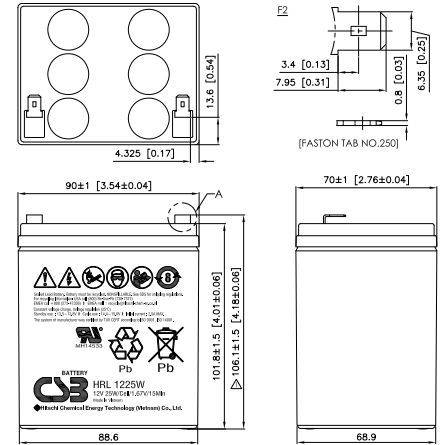
【Self Discharge】

Less than 10% after 90 days, can be stored up to 6 months at 25°C (77°F); Fully recharging is required before usage, and charged sooner if stored at higher temperature than 25°C (77°F).

Specification

Design according with IEC 61056-1/2:2012

Nominal Voltage	12V (6 cells per unit)	
Nominal Capacity	25W @15min-rate to 1.67V per cell @25°C (77°F)	
Weight	Approx. 1.95 Kg (4.30 lbs)	
Maximum Discharge Current	130A (5sec)	
Internal Resistance	Approx. 19.60 mΩ	
Short Circuit Current	328A	
Maximum Charge Current	2.5A	
Terminal types	F2 terminal -Faston Tab 250	
Terminal breaking Torque	--	
Container Material	ABS (UL 94-HB) & Flame Retardant (94-V0) available upon request	
Dimensions	Length (L)	90.0±1.0 mm 3.54±0.04 inch
	Width (W)	70.0±1.0 mm 2.76±0.04 inch
	Container Height (h)	101.8±1.5 mm 4.01±0.06 inch
	Overall Height (H)	106.1±1.5 mm 4.18±0.06 inch



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

F.V/Time	2MIN	4MIN	5MIN	6MIN	8MIN	10MIN	15MIN	20MIN	30MIN	45MIN	60MIN	90MIN
1.60V	57.1	38.1	32.6	28.1	22.2	19.2	13.9	11.0	7.96	5.70	4.50	3.22
1.67V	51.9	36.0	31.7	26.9	21.7	18.8	13.7	10.9	7.85	5.63	4.45	3.19
1.70V	49.4	34.7	30.5	26.1	21.4	18.6	13.6	10.8	7.78	5.59	4.42	3.18
1.75V	44.8	33.5	28.1	24.3	20.5	17.9	13.2	10.5	7.60	5.48	4.35	3.13
1.80V	39.1	29.2	24.9	22.5	19.3	16.7	12.5	10.0	7.32	5.30	4.21	3.05
1.85V	33.1	24.1	21.9	20.1	18.3	15.5	11.9	9.44	6.84	4.96	3.95	2.87

Constant Power Discharge Characteristics Unit: W (25°C, 77°F)

F.V/Time	2MIN	4MIN	5MIN	6MIN	8MIN	10MIN	15MIN	20MIN	30MIN	45MIN	60MIN	90MIN
1.60V	572	381	336	300	247	212	156	124	90.0	64.6	51.1	36.6
1.67V	539	369	325	292	242	208	154	123	89.2	64.1	50.7	36.4
1.70V	520	361	318	286	239	206	153	122	88.7	63.8	50.5	36.3
1.75V	453	340	302	273	231	199	149	119	87.1	62.8	49.8	35.9
1.80V	403	312	280	254	218	188	143	115	84.3	61.0	48.5	35.1
1.85V	360	281	252	231	197	172	131	106	79.3	57.6	45.9	33.4

Please refer to the official site for the latest rating confirmation. URL: www.csb-battery.com

Issued: 180816

Sales Offices

日立化成能源科技股份有限公司
Hitachi Chemical Energy Technology Co., Ltd.

BUSINESS HEADQUARTERS

Tel: +886-2-2880-5600
Fax: +886-2-2888-3300

USA OFFICE

Tel: +1-817-244-7777 / 1-(800)3-CSB-USA (272872)
Fax: +1-817-244-4445

SHENZHEN OFFICE (CHINA)

Tel: +86-755-8831-6488, 8831-6775
Fax: +86-755-8831-6075

EUROPE (EMEA) OFFICE

Tel: +31(0)180-418-140
Fax: +31(0)180-418-327

SHANGHAI OFFICE (CHINA)

Tel: +86-21-5046-1622, 5046-0833
Fax: +86-21-5046-1046

TAIPEI OFFICE

Tel: +886-2-2880-5600
Fax: +886-2-2888-3300

BEIJING OFFICE (CHINA)

Tel: +86-10-5820-5336, 5820-5338
Fax: +86-10-5820-3053

Recognized under UL 1989,
and certified by ISO 9001, 14001.

