



## HR series

# HR 1218W 12V 18W



### 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 5 Years in Standby Service at 25°C  
Eurobat (20°C) : 3-5 years, Standard Commercial

#### 【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)

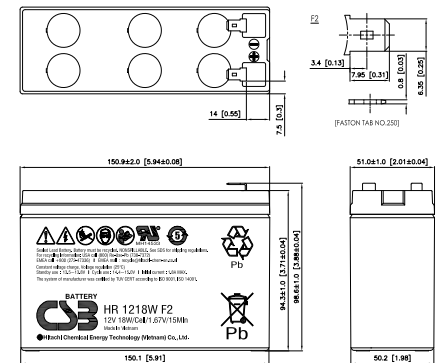
#### 【Self Discharge】

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	18W @15min-rate to 1.67V per cell @25°C (77°F)		
Weight	Approx. 1.53 Kg (3.37 lbs)		
Maximum Discharge Current	130A (5sec)		
Internal Resistance	Approx. 28.5 mΩ		
Short Circuit Current	--		
Maximum Charge Current	1.8A		
Terminal types	F2-Faston Tab250		
Terminal hardware Torque	--		
Container Material	ABS (UL 94-HB) & Flame Retardant (94-V0) available upon request		
Dimensions	Length (L)	150.9±2.0 mm	5.94±0.08 inch
	Width (W)	51.0±1.0 mm	2.01±0.04 inch
	Container Height (h)	94.3±1.0 mm	3.71±0.04 inch
	Overall Height (H)	98.6±1.0 mm	3.88±0.04 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	33.2	26.5	22.8	20.2	16.3	13.6	9.86	7.77	5.61	4.02	3.17	2.28
1.67V	30.9	24.8	21.8	19.6	15.9	13.3	9.74	7.74	5.54	3.96	3.12	2.24
1.70V	30.0	24.1	21.3	19.2	15.5	13.0	9.59	7.67	5.47	3.92	3.10	2.22
1.75V	29.2	22.8	20.1	18.1	15.0	12.7	9.46	7.53	5.42	3.89	3.07	2.20
1.80V	27.9	20.6	18.3	16.6	14.1	12.0	9.11	7.32	5.32	3.83	3.04	2.17
1.85V	24.1	18.3	16.3	14.9	12.6	10.9	8.43	6.82	5.04	3.66	2.92	2.09

### 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	339	271	237	213	178	150	108	88.0	64.5	46.6	37.0	26.7
1.67V	332	260	229	206	174	147	107	87.0	64.2	46.4	36.8	26.5
1.70V	329	252	223	202	172	146	106	85.8	63.5	45.9	36.4	26.2
1.75V	325	241	214	194	165	141	105	85.0	62.9	45.4	36.0	26.0
1.80V	308	227	202	183	155	133	102	82.5	61.8	44.8	35.6	25.7
1.85V	273	207	186	170.0	143	124	94.6	77.9	59.2	43.1	34.4	24.8

Please refer to the official site for the latest rating confirmation. URL: [www.csb-battery.com](http://www.csb-battery.com)

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

