



# HR series HR 1232W

## Valve Regulated Lead Acid Battery

Maintenance-Free Sealed Lead Acid Battery.  
Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99%.

### General 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】

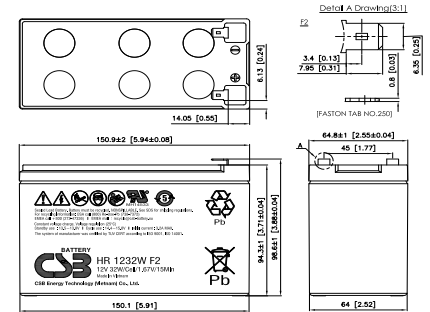
14.4 ~ 15.0 VDC/Unit at 25°C (77°F)

#### 【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	32W @15min-rate to 1.67V per cell @25°C (77°F)		
Weight	Approx. 2.34 Kg (5.16 lbs)		
Maximum Discharge Current	130A (5sec)		
Internal Resistance	Approx. 22.7 mΩ		
Short Circuit Current	335A		
Maximum Charge Current	3.2A		
Terminal types	F2 -Faston Tab250		
Terminal tightening 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)	64.8±1.0 mm	2.55±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	66.4	44.7	38.7	33.9	27.4	23.2	17.1	13.4	9.56	6.80	5.34	3.80
1.67V	61.9	41.9	37.0	32.7	26.7	22.7	16.8	13.3	9.51	6.77	5.32	3.78
1.70V	57.9	40.4	35.8	31.9	26.2	22.4	16.7	13.2	9.47	6.74	5.30	3.77
1.75V	50.8	37.5	33.5	30.0	25.1	21.6	16.3	13.1	9.30	6.63	5.22	3.72
1.80V	43.8	34.4	30.7	27.7	23.4	20.3	15.5	12.5	8.95	6.40	5.04	3.60
1.85V	38.2	31.4	27.3	24.9	21.2	18.6	14.4	11.5	8.24	5.93	4.69	3.38

### 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	672	469	410	365	303	259	193	154	111	78.7	62.1	44.4
1.67V	617	451	397	356	297	255	192	153	110	78.4	61.9	44.3
1.70V	590	441	389	349	293	252	190	152	109	78.1	61.6	44.1
1.75V	540	421	370	334	283	244	185	150	108	77.1	60.9	43.6
1.80V	484	399	345	314	267	232	178	144	104	74.7	59.1	42.5
1.85V	417	354	314	289	245	215	166	134	96.6	69.8	55.5	40.1

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

