



**XHRL series**

**XHRL 12500W**



**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 10 Years in Standby Service at 25°C  
Eurobat (20°C) : >12 YEARS VERY LONG LIFE

**【 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】**

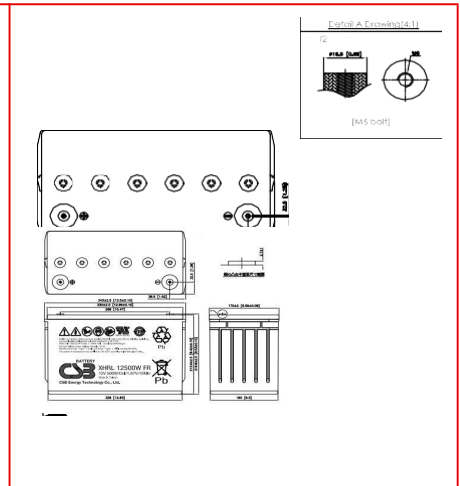
14.4 ~ 15.0 VDC/Unit at 25°C (77°F)

**【 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 60896-21/22:2004**

Nominal Voltage	12V (6 cells per unit)		
Nominal Capacity	500W @15min-rate to 1.67V per cell @25°C (77°F)		
Weight	Approx. 36.90 Kg (81.33 lbs)		
Maximum Discharge Current	1200A		
Internal Resistance	Approx. 2.22 mΩ		
Short Circuit Current	3685A		
Maximum Charge Current	50A		
Terminal types	I2 thread lead alloy terminal to accept M6 bolt		
Terminal tightening torque	51.7±10.3 Kgf·cm / 44.9±9.0 Lbf·in / 5.1±1.0 N·m		
Container Material	PP (UL 94-HB) & Flame Retardant (94-V0) available upon request		
Dimensions	Length (L)	343.0±2.5 mm	13.50±0.10 inch
	Width (W)	170.0±2.0 mm	6.69±0.08 inch
	Container Height (h)	213.9±2.5 mm	8.42±0.10 inch
	Overall Height (H)	216.6±2.5 mm	8.53±0.10 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	780	620	564	509	428	367	272	214	153	108	84.4	59.5
1.67V	700	567	512	472	401	350	264	210	151	107	83.5	58.9
1.70V	661	536	490	454	386	340	259	206	150	106	82.9	58.6
1.75V	592	486	449	412	359	317	247	199	146	104	81.7	58.1
1.80V	514	434	397	369	324	288	231	187	139	100	79.3	57.1
1.85V	444	369	348	323	283	255	204	168	128	93.2	74.3	54.0

**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	7739	6297	5777	5353	4610	4000	3086	2464	1794	1278	1005	717
1.67V	7118	5911	5473	5057	4377	3845	3017	2420	1774	1267	998	713
1.70V	6831	5714	5296	4906	4247	3753	2967	2389	1760	1259	993	710
1.75V	6352	5357	4941	4605	3986	3565	2847	2311	1722	1238	980	705
1.80V	5765	4877	4516	4169	3676	3334	2677	2191	1652	1198	953	691
1.85V	5054	4256	3933	3688	3332	3056	2454	2022	1539	1126	902	660

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

Issued: 210222

**Sales Offices**

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

Recognized under UL 1989,  
and certified by ISO 9001, 14001, 45001, 50001.

