



**XHRL series**

**XHRL 12650W**



**Valve Regulated Lead Acid Battery**

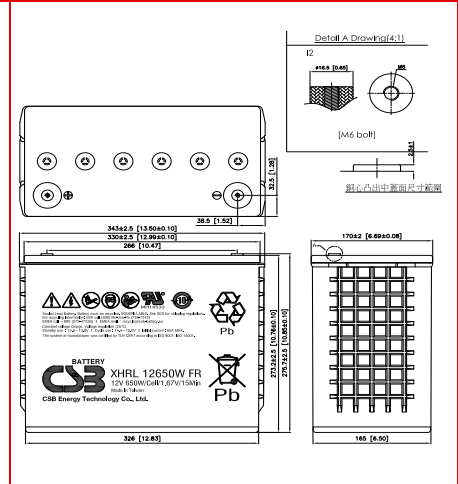
Maintenance-Free Sealed Lead Acid Battery.  
Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99%.

**General Design for Standby Power Applications**

<p><b>【Design Life】</b> Up to 10 Years in Standby Service at 25°C Eurobat (20°C) : &gt;12 YEARS VERY LONG LIFE</p> <p><b>【Operating Temperature Range】</b> 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)</p>	<p><b>【Float Charging Voltage】</b> 13.5 ~ 13.8 VDC/Unit at 25°C (77°F)</p> <p><b>【Equalization Charging Voltage】</b> 14.4 ~ 15.0 VDC/Unit at 25°C (77°F)</p> <p><b>【Self Discharge】</b> 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).</p>
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**Specification Design according with IEC 60896-21/22:2004**

Nominal Voltage	12V (6 cells per unit)	
Nominal Capacity	650W @15min-rate to 1.67V per cell @25°C (77°F)	
Weight	Approx. 47.90 Kg (105.57 lbs)	
Maximum Discharge Current	1350A	
Internal Resistance	Approx. 2.33 mΩ	
Short Circuit Current	4018A	
Maximum Charge Current	65A	
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)	273.2±2.5 mm / 10.76±0.10 inch
	Overall Height (H)	275.7±2.5 mm / 10.85±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	820	691	646	603	541	476	369	289	205	146	115	81.7
1.67V	725	622	583	552	490	442	349	277	200	144	113	81.3
1.70V	687	589	556	527	467	425	338	270	197	142	112	81.1
1.75V	607	540	503	473	428	393	315	255	190	139	111	80.5
1.80V	538	465	440	422	384	347	288	237	181	133	107	79.1
1.85V	417	405	384	360	325	300	253	213	167	124	101	75.0

**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	8440	7255	6774	6349	5650	5092	4039	3261	2422	1762	1392	1003
1.67V	7840	6754	6329	5959	5361	4882	3911	3179	2383	1740	1379	997
1.70V	7552	6512	6094	5774	5196	4783	3829	3124	2353	1724	1369	993
1.75V	6857	6011	5718	5408	4894	4459	3623	2984	2278	1681	1342	981
1.80V	6077	5461	5155	4917	4482	4083	3322	2776	2163	1612	1295	956
1.85V	5221	4792	4604	4343	3961	3639	2942	2505	2006	1507	1219	907

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, 45001, 50001.



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