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XHRL12475W ▶ 12V 475W

XHRL12475W is specially designed for high efficient discharge and long life application. Its characteristics are high energy density, small footprint and high discharge efficiency. It can be used for more than 260 cycles at 100% discharge in cycle service, up to 10 years in standby service.



Specification

Cells per unit	6
Voltage per unit	12
Capacity	475W @15 min-rate to 1.67V per cell @25 °C (77°F)
Weight	Approx. 36.2 kg (79.81 lbs)
Maximum Discharge Current	800A(5sec)
Internal Resistance	Approx. 2.3 mΩ
Operating Temperature Range	Discharge: -20°C~50°C (-4°F~122°F) Charge: -20°C~50°C (-4°F~122°F) Storage: -15°C~40°C (5°F~104°F)
Nominal Operating Temperature Range	25°C ±3°C (77°F ±5°F)
Float Charging Voltage	13.5 to 13.8 VDC/unit Average at 25°C (77°F)
Recommended Maximum Charging Current Limit	47.5 A
Equalization and Cycle Service	14.4 to 15.0 VDC/unit Average at 25°C (77°F)
Self Discharge	CSB Batteries can be stored for more than 6 months at 25°C(77°F). Please charge batteries before using. For higher temperatures the time interval will be shorter.
Terminal	I2-Thread lead alloy recessed terminal to accept M6/M8 bolt
Container Material	Polypropylene(UL 94-HB) & Flammability resistance of (UL 94-V0) can be available upon request.

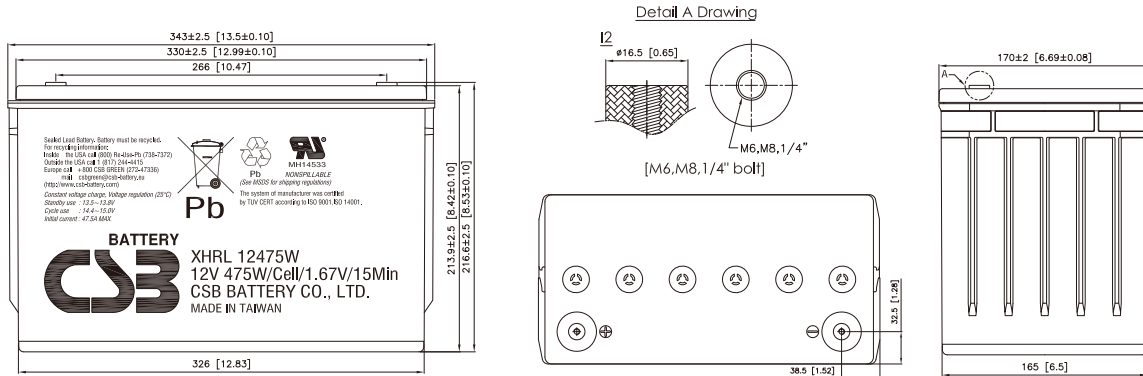


CSB-manufactured **VRLA (Absorbent Glass Mat type)** batteries are UL-recognized components under UL1989.

CSB is also certified by ISO 9001 and ISO 14001.

Dimensions :

Unit: mm (inch)	Overall Height (H)	Container height (h)	Length (L)	Width (W)
	216.6±2.5 (8.53±0.10)	213.9±2.5 (8.42±0.10)	343.0±2.5 (13.50±0.10)	170.0±2.0 (6.69±0.08)



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

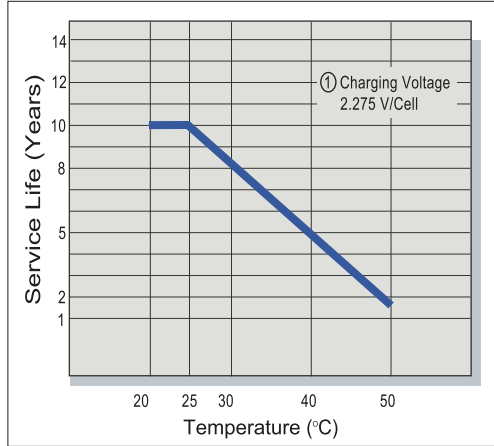
F.V. / Time	2MIN	4MIN	6MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
1.60V	768	601	501	422	365	270	215	156	85.7	60.4
1.67V	683	552	461	399	347	261	210	154	84.8	59.9
1.70V	647	519	441	387	336	256	206	152	84.2	59.6
1.75V	587	464	409	357	314	243	197	148	82.6	58.9
1.80V	500	411	370	322	288	225	185	140	79.7	57.2
1.85V	403	364	319	283	252	203	168	129	74.4	53.9

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

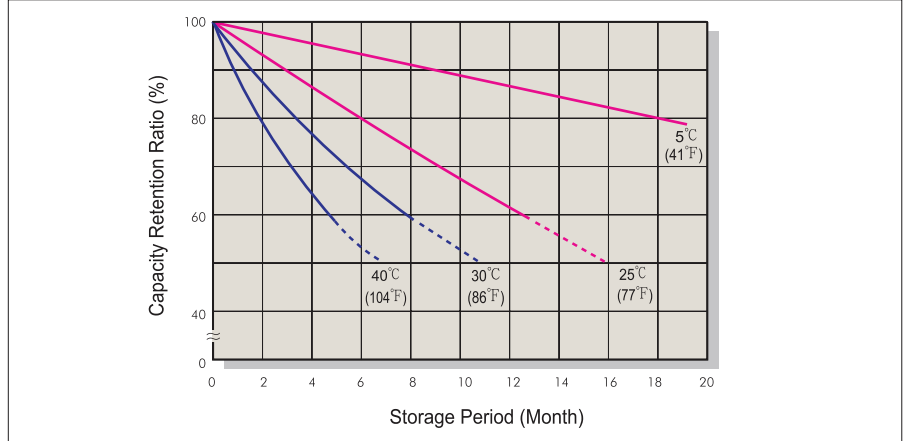
F.V. / Time	2MIN	4MIN	6MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
1.60V	7700	6127	5143	4414	3859	2940	2368	1746	985	705
1.67V	7081	5758	4846	4232	3700	2869	2323	1725	978	701
1.70V	6811	5582	4690	4122	3604	2824	2294	1711	973	699
1.75V	6181	5133	4399	3849	3403	2707	2216	1671	959	693
1.80V	5589	4619	4041	3513	3150	2524	2092	1605	932	678
1.85V	4632	4129	3509	3127	2859	2276	1916	1503	880	644

Ratings presented herein are subject to revision without notice. Please refer to www.csb-battery.com to confirm the latest version.

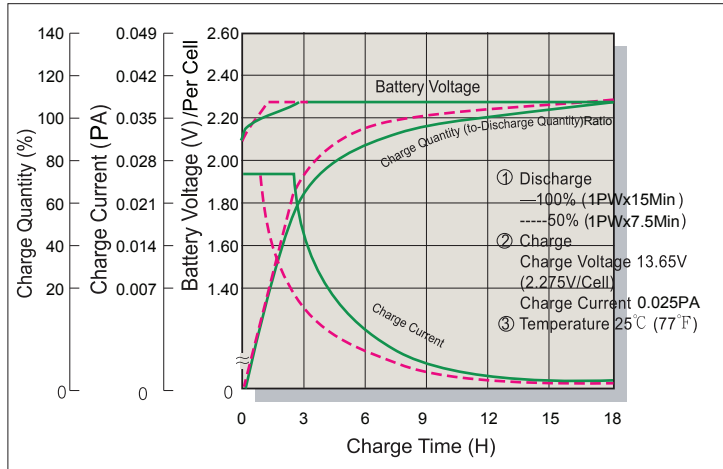
Trickle (or Float) Service Life



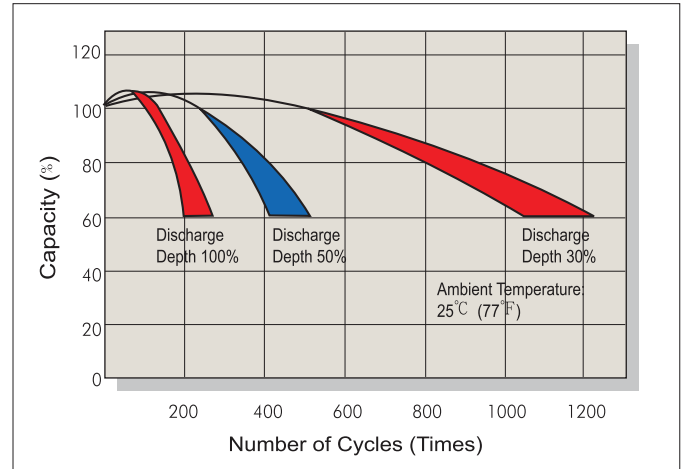
Capacity Retention Characteristic



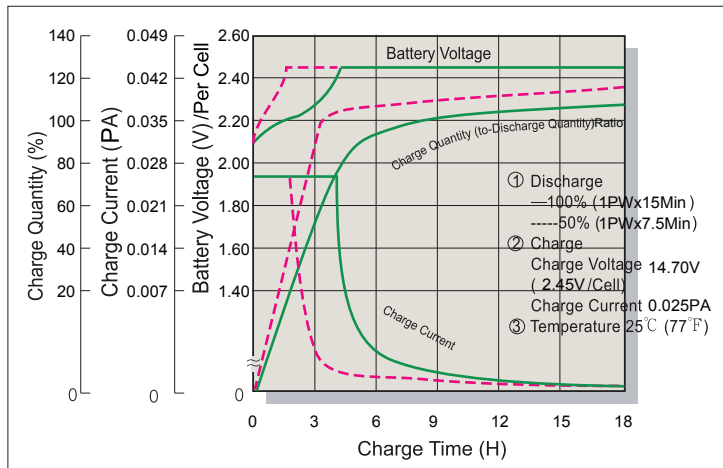
Battery Voltage and Charge Time for Standby Use



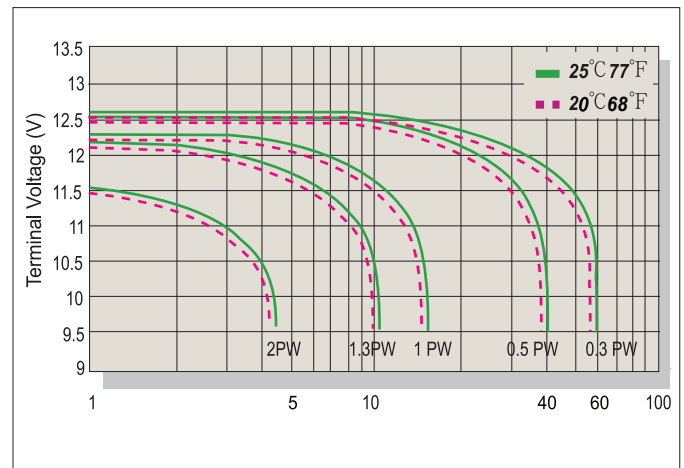
Cycle Service Life



Battery Voltage and Charge Time for Cycle Use



Terminal Voltage (V) and Discharge Time



Charging Procedures

Application	Charge Voltage(V/Cell)			Max.Charge Current
	Temperature	Set Point	Allowable Range	
Cycle Use	25°C(77°F)	2.45	2.40~2.50	0.1PA
Standby	25°C(77°F)	2.275	2.25~2.30	

Discharge Current VS. Discharge Voltage

Final Discharge Voltage V/Cell	1.75	1.70	1.60	1.30
Discharge Power(W)	0.1P>(W)	0.1P≤(W)<0.25P	0.25P≤(W)<1.0P	(W)≥1.0P

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