

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.



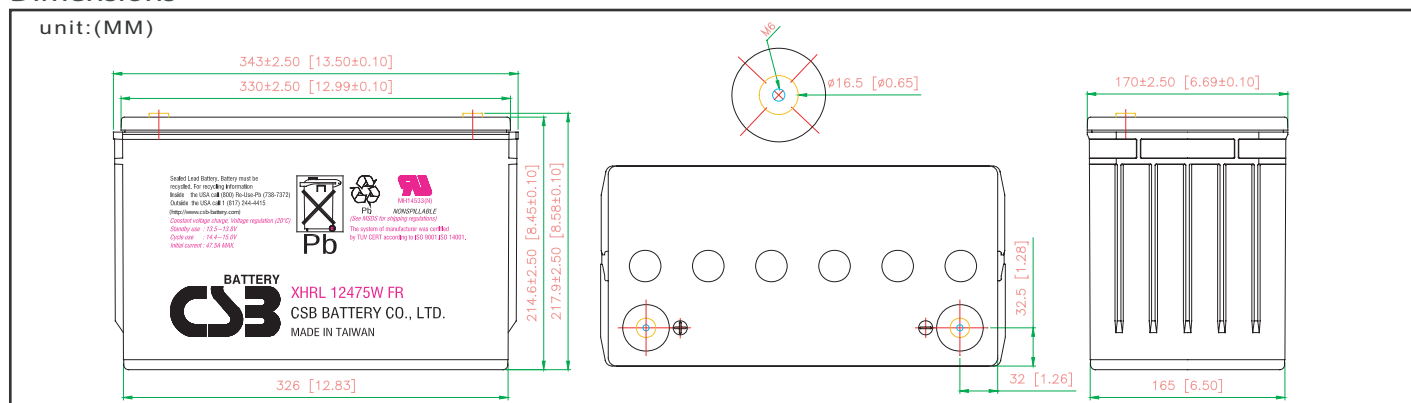
Specification

Cells per unit	6
Voltage per unit	12
Capacity	475W @15 min-rate to 1.67V per cell @25°C (77°F) 118.8Ah @20hr-rate to 1.75V per cell @25°C (77°F)
Weight	Approx. 35.5 kg (78.26 lbs)
Maximum Discharge Current	800A(5sec)
Internal Resistance	Approx. 5 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	47.5 CA
Current Limit	
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 bolt
Container Material	Polypropylene(UL 94-V0/File E50955)*Flammability resistance of (UL 94-HB/File E216959) can be available upon request.



CSB-manufactured batteries are UL-recognized components under UL924 as well as ISO 9001 and ISO 14001 certified.

Dimensions



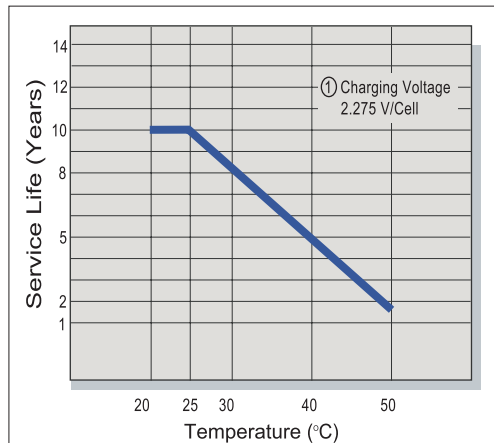
Constant Current Discharge Characteristics Unit:Amperes(25°C,77°F)

F.V/Time	5MIN	10MIN	15MIN	20MIN	30MIN	40MIN	50MIN	60MIN	90MIN
1.60V	494	345	262	212	155	121	101.0	87.2	61.6
1.67V	454	328	255	207	152	120	100.0	86.4	61.2
1.70V	435	317	250	204	150	119	99.1	85.3	60.3
1.75V	406	298	236	198	145	115	96.8	83.8	59.2
1.80V	372	275	218	184	137	110	93.0	80.4	57.4
1.85V	327	246	199	165	126	102	86.6	75.6	52.7

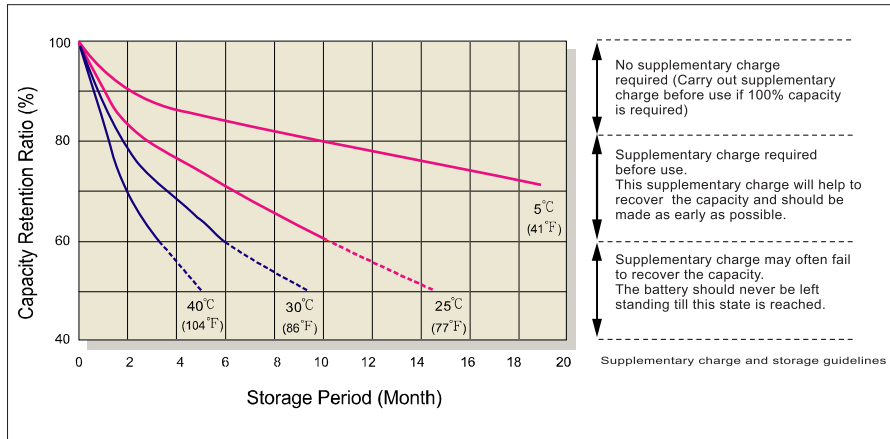
Constant Power Discharge Characteristics Unit:Watt(25°C,77°F)

F.V/Time	5MIN	10MIN	15MIN	20MIN	30MIN	40MIN	50MIN	60MIN	90MIN
1.60V	5,272	3,811	2,958	2,421	1,783	1,412	1,182	1,021	726
1.67V	4,943	3,664	2,870	2,367	1,758	1,393	1,167	1,018	720
1.70V	4,775	3,581	2,844	2,344	1,738	1,374	1,156	1,007	709
1.75V	4,446	3,388	2,704	2,274	1,687	1,354	1,140	988	700
1.80V	4,116	3,147	2,541	2,128	1,626	1,300	1,096	974	678
1.85V	3,723	2,844	2,322	1,950	1,489	1,216	1,031	922	636

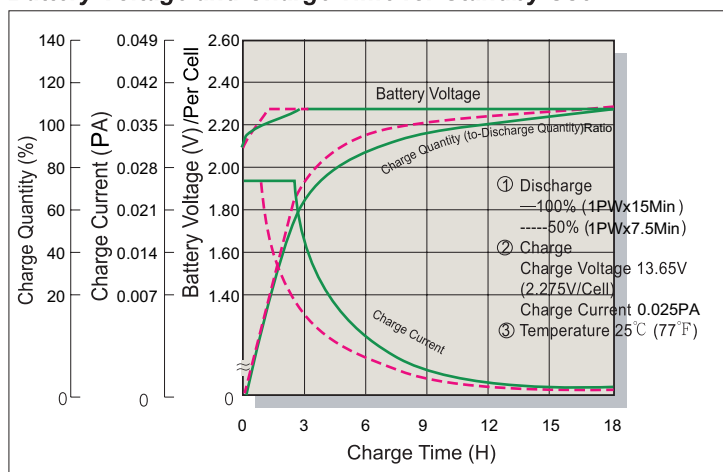
Trickle (or Float) Service Life



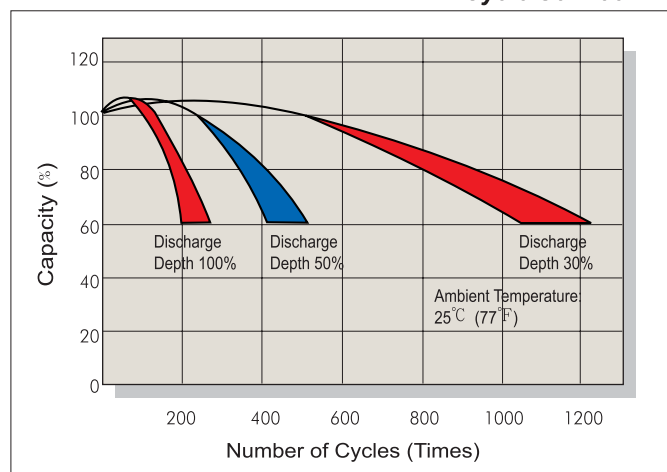
Capacity Retention Characteristic



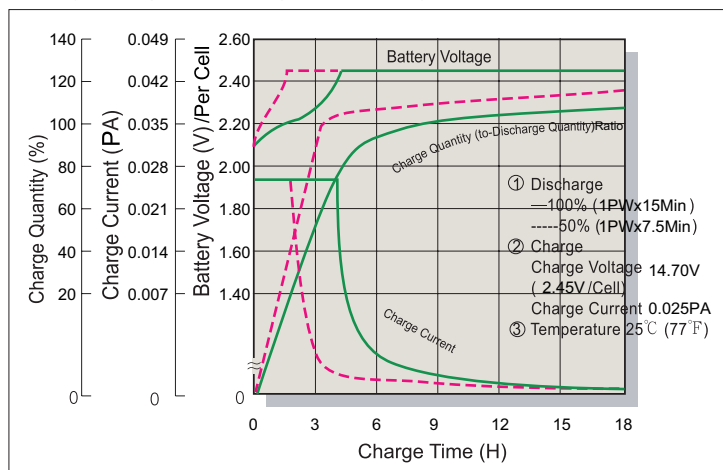
Battery Voltage and Charge Time for Standby Use



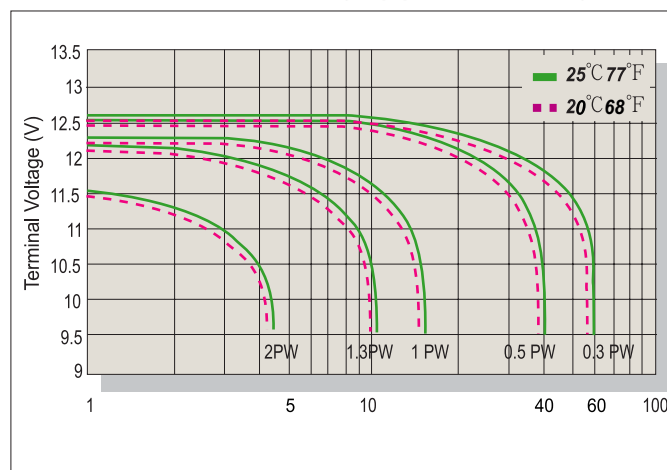
Cycle Service Life



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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