



XHRL12620W

12V 620W

XHRL 12620W is specially designed for high efficient discharge and long life application. It's 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.

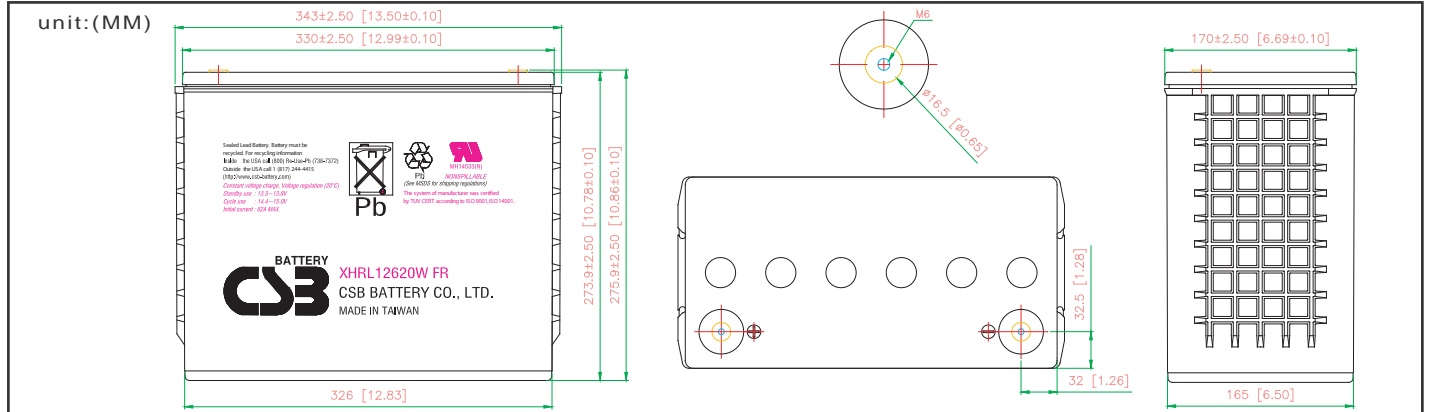


Specification

Cells Per Unit	6
Voltage Per Unit	12
Capacity	620W @15 min-rate to 1.67V per cell @25°C (77°F) 139.3Ah @20hr-rate to 1.75V per cell @25°C (77°F)
Weight	Approx. 45.7 kg(100.75 lbs)
Maximum Discharge Current	800A(5sec)
Internal Resistance	Approx. 3.4mΩ
Operating Temperature Range	Discharge: -20°C~50°C (5°F~122°F) Charge: -20°C~50°C (5°F~104°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	62A
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	PPE(UL94-V0/File161759)*Flammability resistance 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)

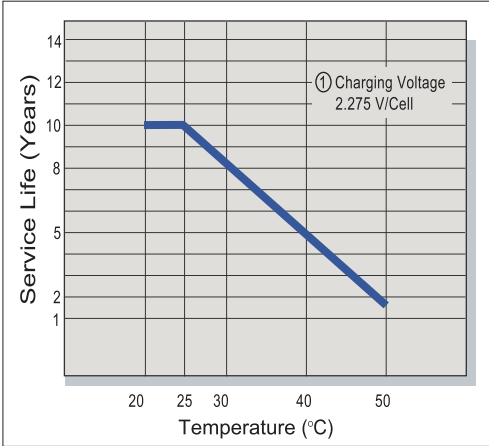
F.V/Time	5MIN	10MIN	15MIN	20MIN	30MIN	40MIN	50MIN	60MIN	90MIN
1.60V	640	448	339	274	201	156	130	113	80
1.67V	590	424	331	269	197	155	129	112	79
1.70V	564	411	324	265	194	153	128	111	78
1.75V	525	387	306	256	187	149	125	109	77
1.80V	482	356	284	239	178	143	121	104	74
1.85V	423	319	257	214	163	132	112	98	68

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

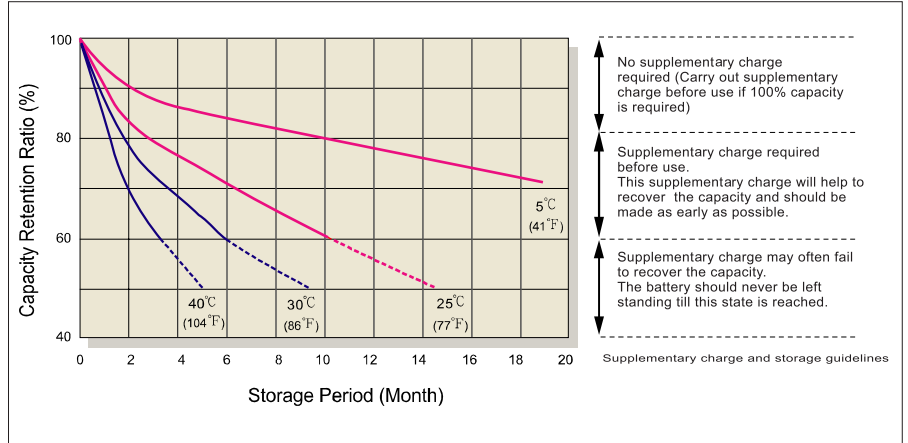
F.V/Time	5MIN	10MIN	15MIN	20MIN	30MIN	40MIN	50MIN	60MIN	90MIN
1.60V	6831	4937	3832	3137	2309	1830	1533	1323	941
1.67V	6405	4748	3720	3067	2278	1805	1512	1320	932
1.70V	6187	4640	3685	3037	2252	1780	1498	1305	919
1.75V	5761	4390	3503	2948	2185	1755	1477	1281	907
1.80V	5334	4078	3292	2757	2106	1685	1421	1263	878
1.85V	4825	3685	3009	2526	1930	1576	1335	1195	825

• All mentioned values are average values.

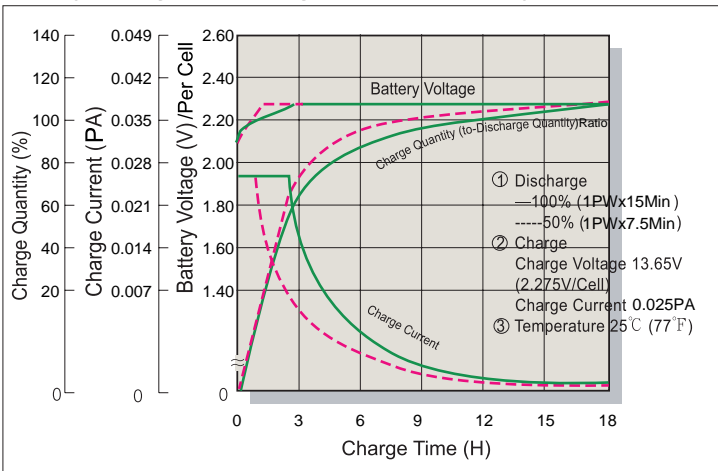
Trickle (or Float) Service Life



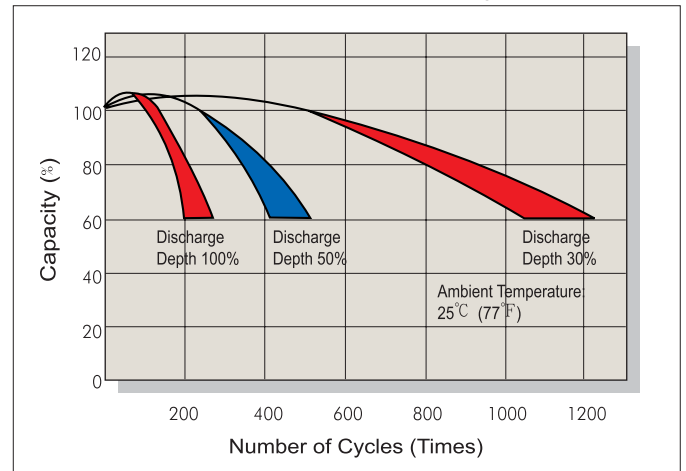
Capacity Retention Characteristic



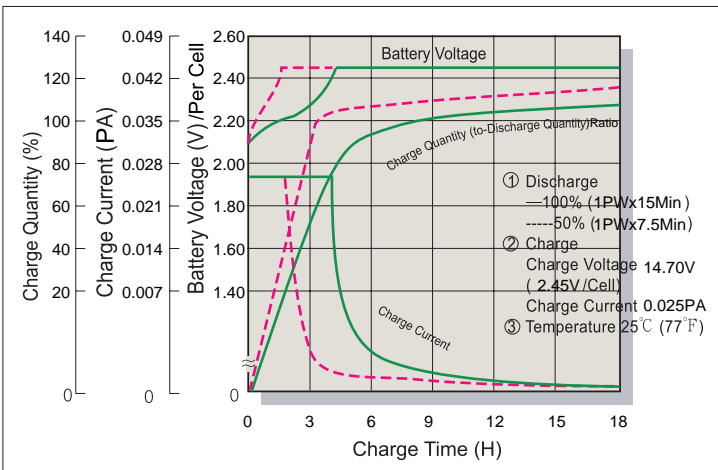
Battery Voltage and Charge Time for Standby Use



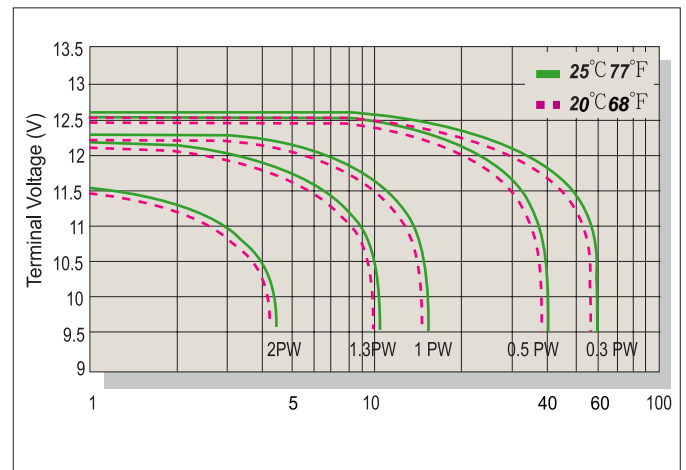
Cycle Service Life



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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