

XHRL12620W

12V 620W

XHRL12620W 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.



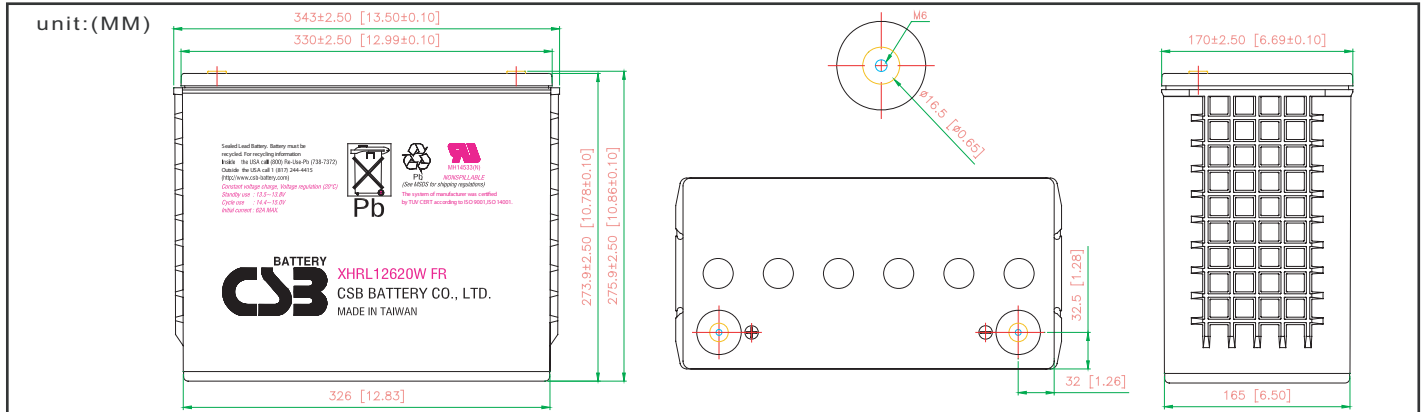
Specification

Cells Per Unit	6
Voltage Per Unit	12
Capacity	620W @15 min-rate to 1.67V per cell @25°C (77°F) 140Ah @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 (-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	60A
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)

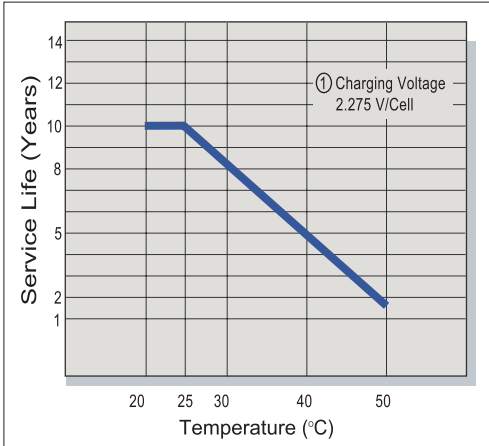
F.V/Time	5MIN	10MIN	15MIN	20MIN	30MIN	40MIN	50MIN	60MIN	90MIN
1.60V	619	434	328	266	194	151	126	109	77.3
1.67V	571	411	320	260	191	150	125	108	76.7
1.70V	545	398	313	256	188	148	124	107	75.7
1.75V	509	374	297	247	181	144	121	105	74.2
1.80V	467	345	274	231	172	139	117	101	72.0
1.85V	409	309	249	207	158	127	109	94.8	66.2

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

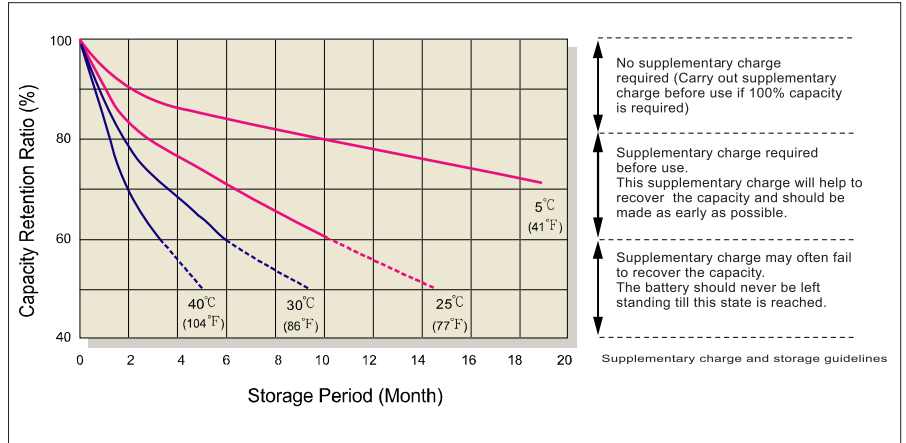
F.V/Time	5MIN	10MIN	15MIN	20MIN	30MIN	40MIN	50MIN	60MIN	90MIN
1.60V	6,612	4,779	3,710	3,036	2,235	1,772	1,484	1,281	911
1.67V	6,200	4,596	3,600	2,969	2,205	1,747	1,463	1,277	902
1.70V	5,989	4,491	3,567	2,940	2,179	1,723	1,450	1,263	890
1.75V	5,576	4,250	3,391	2,853	2,115	1,699	1,430	1,240	878
1.80V	5,163	3,948	3,187	2,669	2,039	1,631	1,375	1,223	850
1.85V	4,671	3,567	2,913	2,445	1,868	1,525	1,292	1,157	799

- All mentioned values are average values.
- Tolerance: X<6min(+15%~-15%),6min ≤ X<10min(+12%~-12%),10min ≤ X<60min(+8%~-8%),X ≥ 60min(+5%~-5%)

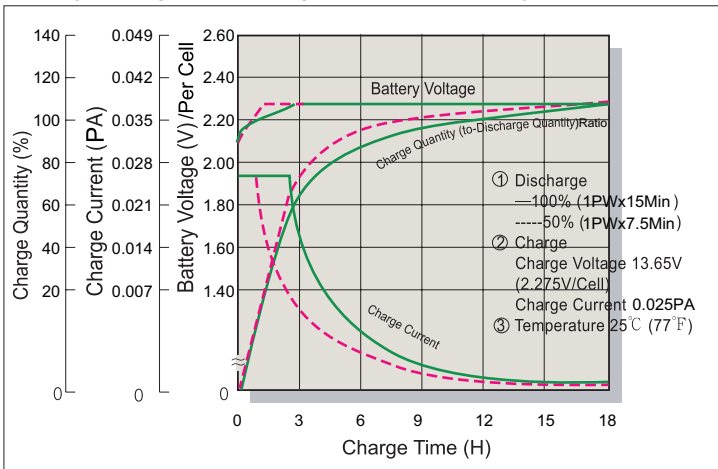
Trickle (or Float) Service Life



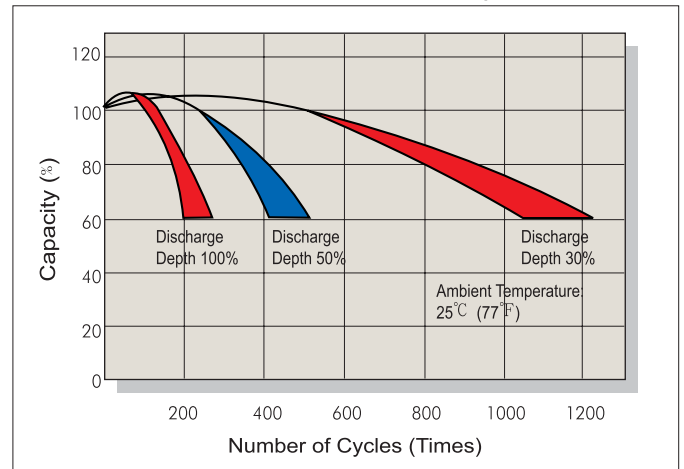
Capacity Retention Characteristic



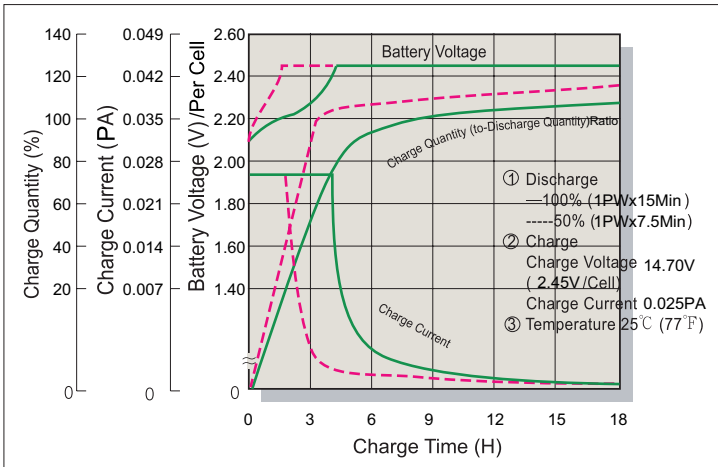
Battery Voltage and Charge Time for Standby Use



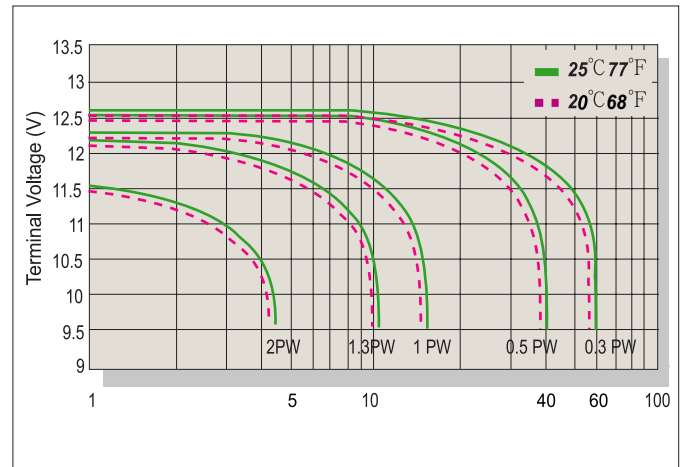
Cycle Service Life



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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