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# XHRL12620W ▶ 12V 620W

XHRL12620W 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

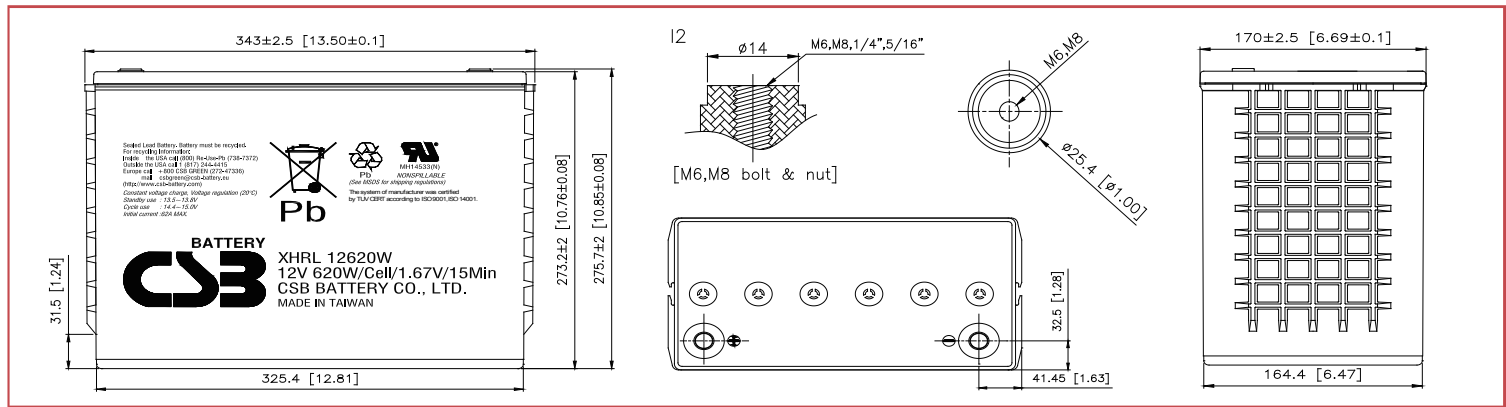
Cells per unit	6
Voltage per unit	12
Capacity	620W @15 min-rate to 1.67V per cell @25 °C (77°F)
Weight	Approx. 47.2 kg (104.06 lbs)
Maximum Discharge Current	800A(5sec)
Internal Resistance	Approx. 3.7 mΩ
Operating Temperature Range	Discharge: -20°C~50°C (-4°F~122°F) Charge: -20°C~50°C (-4°F~122°F) Storage: -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	62 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	PPE(UL94-V0/File161759)*Flammability resistance can be available upon request.



CSB-manufactured VRLA batteries are UL-recognized components under UL924 and UL1989.

CSB is also certified by ISO 9001 and ISO 14001.

Dimensions :	Overall Height (H)	Container height (h)	Length (L)	Width (W)
Unit: mm (inch)	275.7±2.5 (10.9±0.1)	273.2±2.5 (10.8±0.1)	343±2.5 (13.5±0.1)	170±2 (6.7±0.08)



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

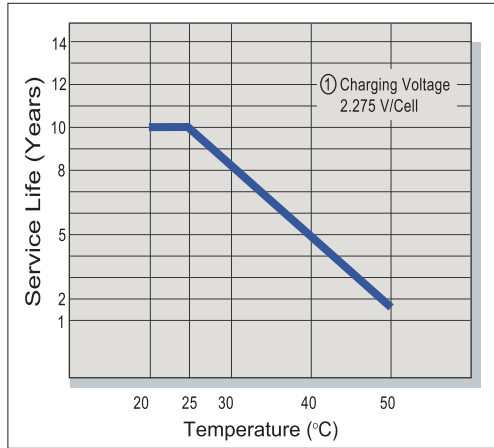
F.V/Time	2MIN	4MIN	6MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
1.60V	766	641	571	504	458	349	283	206	116	81.7
1.67V	660	585	511	466	420	326	273	200	114	79.8
1.70V	622	545	486	448	398	315	267	196	113	78.3
1.75V	553	485	449	398	356	293	252	188	110	78.2
1.80V	494	443	383	344	315	270	229	175	106	75.6
1.85V	437	360	322	298	280	239	201	158	97.9	71.1

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

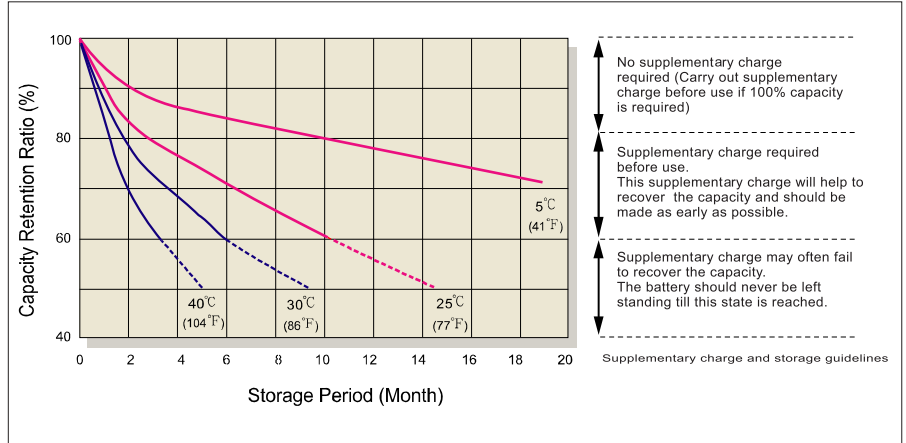
F.V/Time	2MIN	4MIN	6MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
1.60V	7,070	6,088	5,529	5,280	4,692	3,770	3,108	2,304	1,344	966
1.67V	6,439	5,680	5,432	4,894	4,387	3,720	2,983	2,249	1,329	959
1.70V	6,090	5,494	5,336	4,692	4,262	3,540	2,918	2,222	1,325	957
1.75V	5,579	5,208	4,825	4,311	3,969	3,282	2,742	2,135	1,293	944
1.80V	5,235	4,660	4,246	3,894	3,639	2,956	2,515	2,017	1,247	916
1.85V	4,134	3,765	3,674	3,470	3,120	2,576	2,257	1,864	1,163	867

Ratings are preliminary and subject to change.

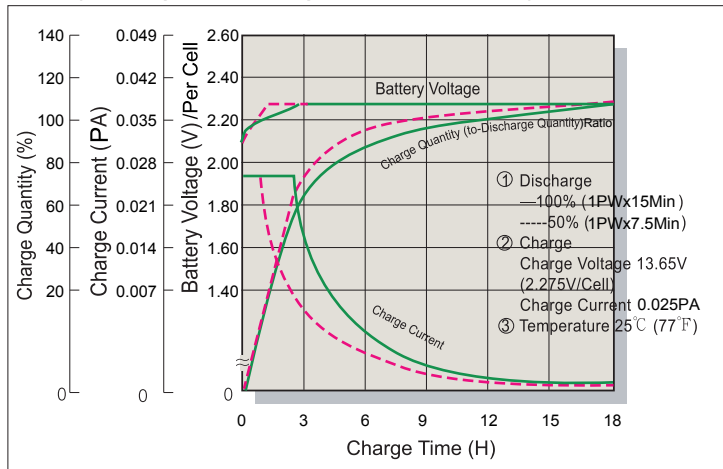
### Trickle (or Float) Service Life



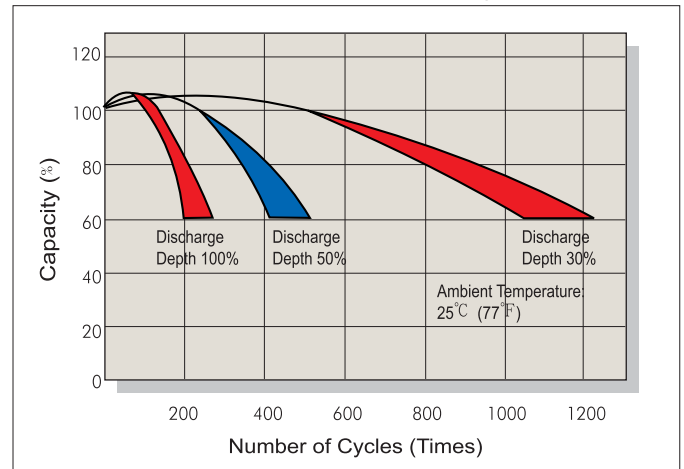
### Capacity Retention Characteristic



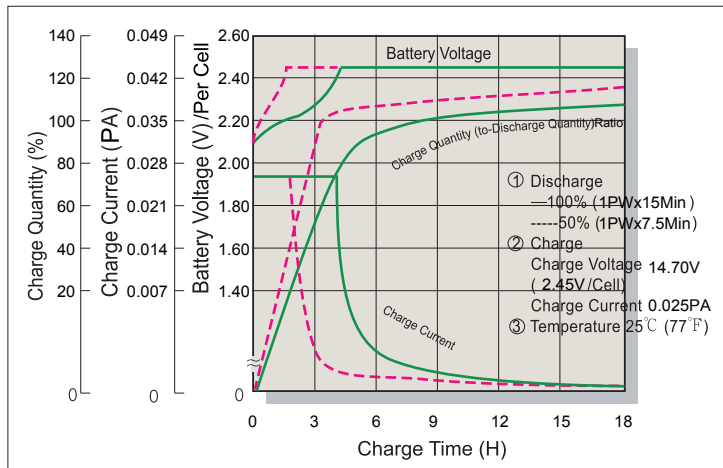
### Battery Voltage and Charge Time for Standby Use



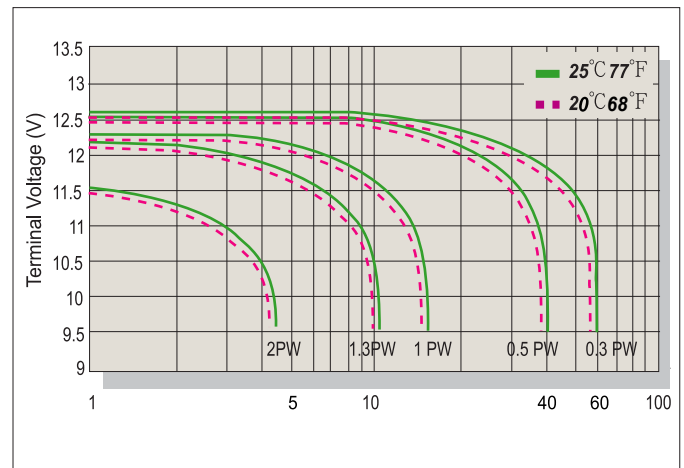
### Cycle Service Life



### 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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