

XHRL12360W

12V 360W

XHRL 12360W 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.



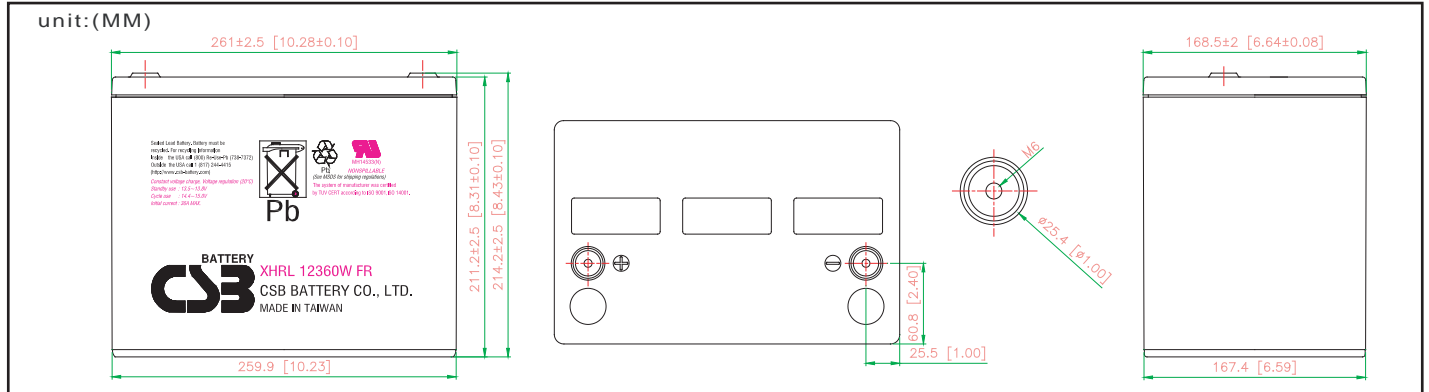
Specification

Cells per unit	6
Voltage per unit	12
Capacity	360W @15 min-rate to 1.67V per cell @25°C (77°F) 73.6Ah @20hr-rate to 1.75V per cell @25°C (77°F)
Weight	Approx. 27.5 kg (60.63 lbs)
Maximum Discharge Current	800A(5sec)
Internal Resistance	Approx. 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 (-4°F~122°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	36 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	12-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)

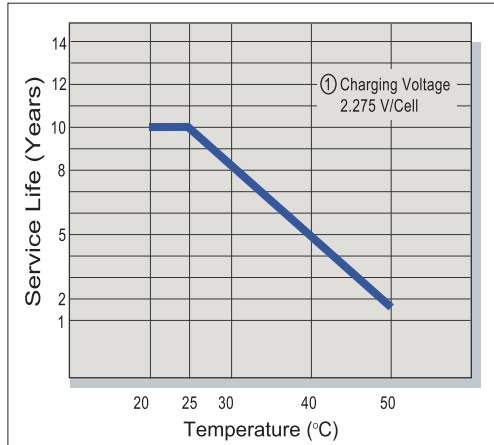
F.V/Time	5MIN	10MIN	15MIN	20MIN	30MIN	40MIN	50MIN	60MIN	90MIN
1.60V	378	256	195	155	110	87	72	61	43
1.67V	348	245	188	152	109	86	70	60	42
1.70V	333	237	185	149	107	85	70	60	42
1.75V	308	225	177	143	105	83	69	59	41
1.80V	283	208	162	134	100	80	66	57	41
1.85V	245	188	147	120	92	74	62	52	32

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

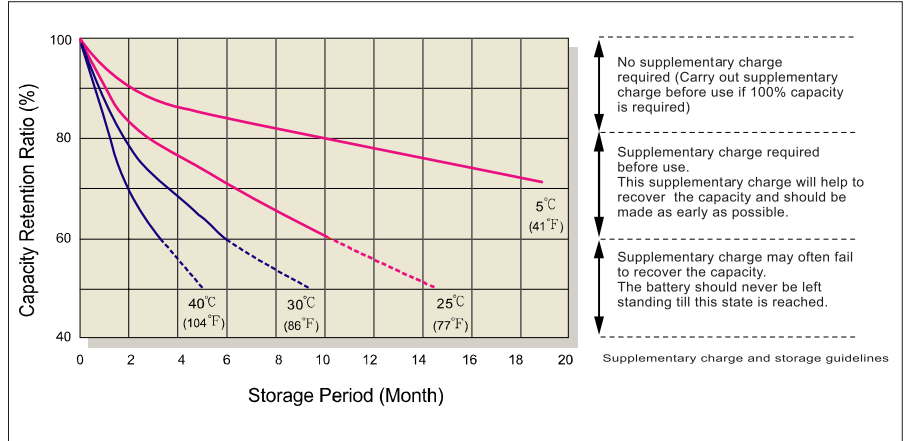
F.V/Time	5MIN	10MIN	15MIN	20MIN	30MIN	40MIN	50MIN	60MIN	90MIN
1.60V	4098	2888	2216	1773	1284	1018	845	716	510
1.67V	3834	2771	2161	1744	1269	1008	837	716	505
1.70V	3695	2714	2131	1712	1258	1001	829	706	502
1.75V	3440	2574	2035	1662	1232	983	812	694	493
1.80V	3203	2402	1904	1558	1171	943	785	680	483
1.85V	2842	2191	1728	1418	1093	872	737	632	457

● All mentioned values are average values.

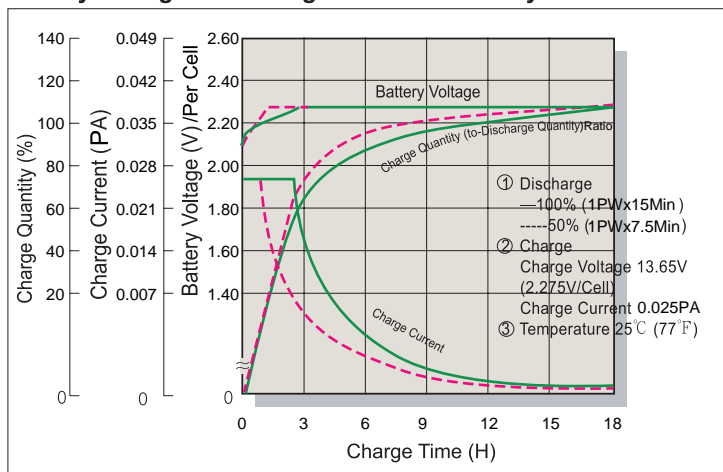
Trickle (or Float) Service Life



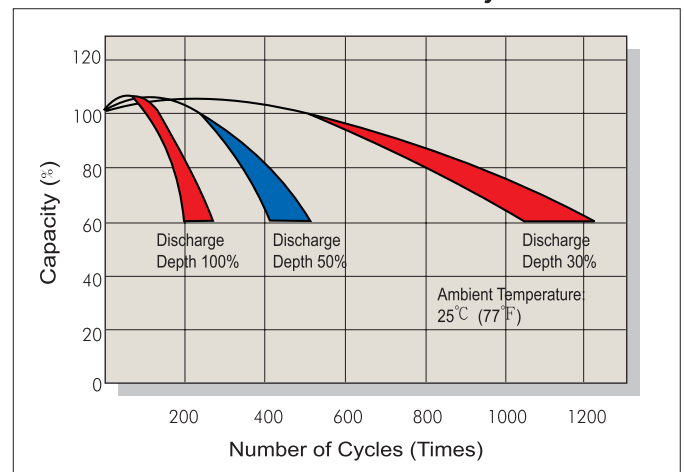
Capacity Retention Characteristic



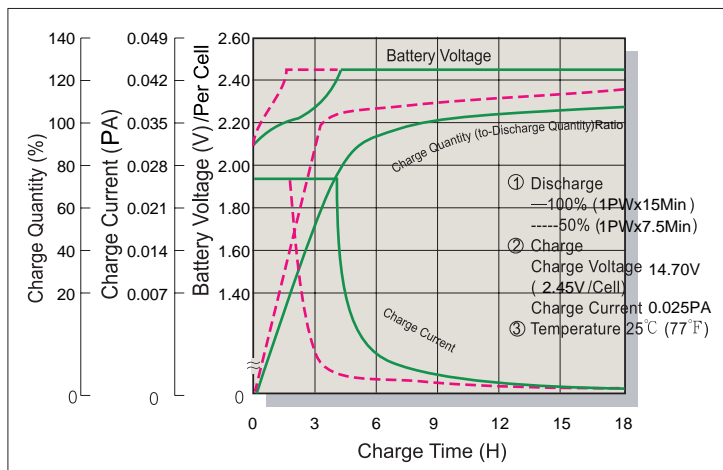
Battery Voltage and Charge Time for Standby Use



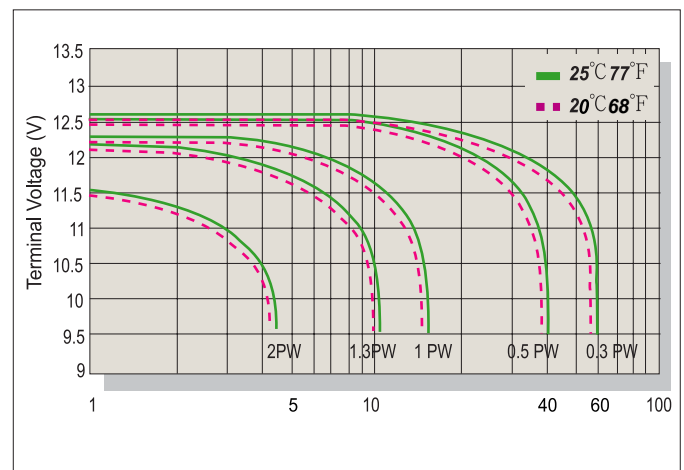
Cycle Service Life



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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