

HRL 1280W

12V 80W

HRL 1280W is specially designed for high efficient discharge and long life application. It's characteristics are small volume, light weight and high discharge efficiency. It can be used for more than 260 cycles at 100% discharge in cycle service, or five to eight years in standby service.



Specification

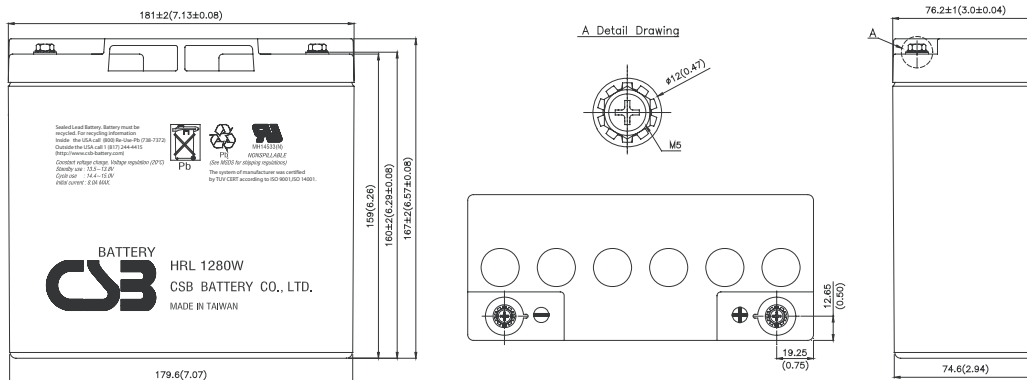
Cells per unit	6
Voltage per unit	12
Capacity	80W @15 minute-rate to 1.67V per cell @25°C (77°F)
Weight	Approx. 6.6kg(14.5 lbs)
Maximum Discharge Current	300A(5sec)
Internal Resistance Approx.	Approx. 9mΩ
Operating Temperature Range	Discharge: -15°C~50°C (5°F~122°F) Charge: -15~40°C (5°F~104°F) Storage: -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 Current Limit	8 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	Faston Tab 187/250
Container Material	-ABS (UL94-HB)*Flammability resistance of UL94-V2 can be available upon request.



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

Dimensions

unit: (MM)



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

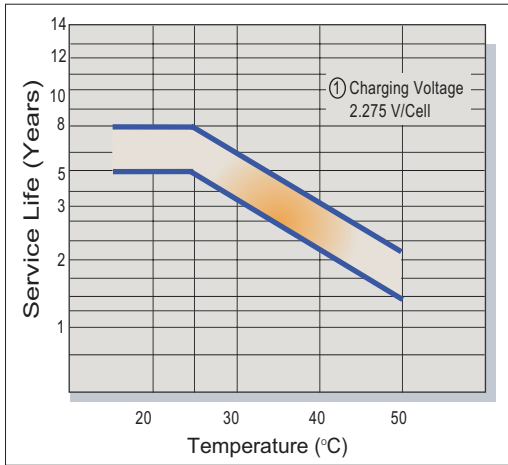
F.V/Time	2MIN	4MIN	6MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
1.60V	230.00	165.00	100.00	79.50	69.50	53.00	38.00	28.50	17.30	13.30
1.67V	200.00	150.00	95.00	78.50	68.00	52.00	37.50	28.00	17.00	13.00
1.70V	180.00	130.00	92.00	77.00	66.50	50.50	37.00	27.60	16.60	12.60
1.75V	155.00	110.00	88.00	75.00	65.00	49.00	36.00	27.30	16.30	12.30
1.80V	120.00	95.00	80.00	70.00	61.00	47.00	35.00	27.00	16.00	12.00
1.85V	93.00	80.00	73.00	63.00	55.00	42.00	33.00	26.00	15.50	11.00

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

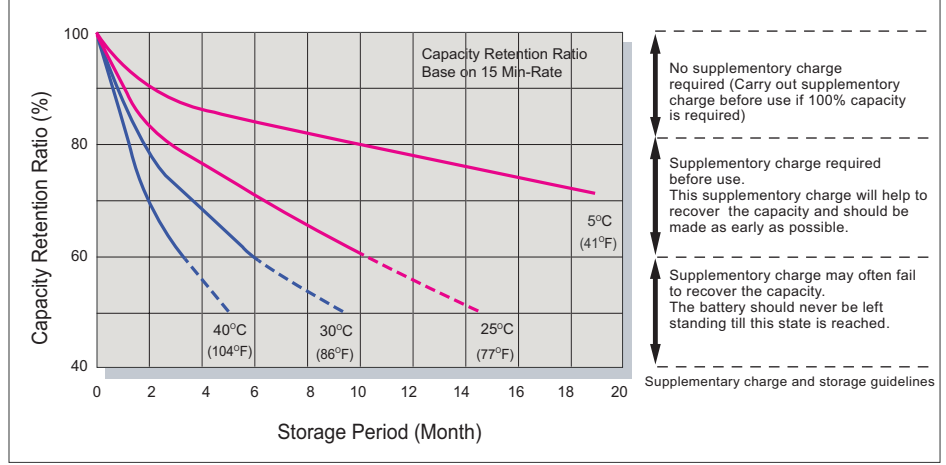
F.V/Time	2MIN	4MIN	6MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
1.60V	2,576.00	1,848.00	1,120.00	890.00	792.00	604.00	433.00	336.00	204.00	157.00
1.67V	2,240.00	1,680.00	1,064.00	879.00	775.00	593.00	428.00	330.00	201.00	153.00
1.70V	2,016.00	1,456.00	1,030.00	862.00	758.00	576.00	422.00	326.00	196.00	149.00
1.75V	1,736.00	1,232.00	986.00	840.00	741.00	559.00	410.00	322.00	192.00	145.00
1.80V	1,344.00	1,064.00	896.00	784.00	695.00	536.00	399.00	319.00	189.00	142.00
1.85V	1,042.00	896.00	818.00	706.00	627.00	479.00	376.00	307.00	183.00	130.00

● All mentioned values are average values.

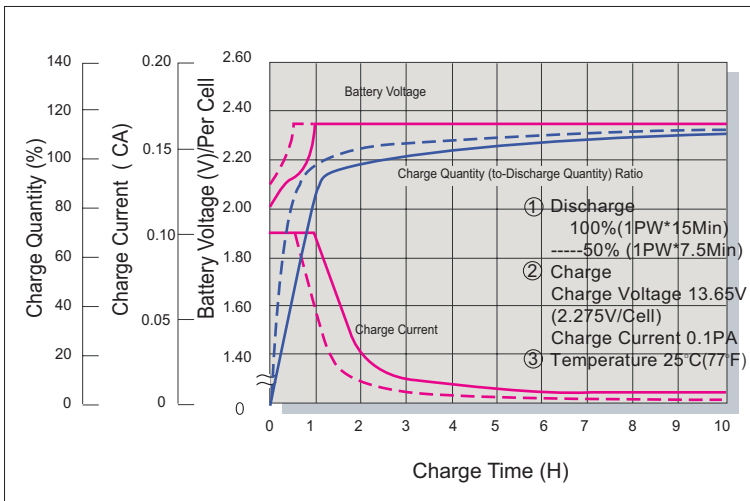
Trickle (or Float) Service Life



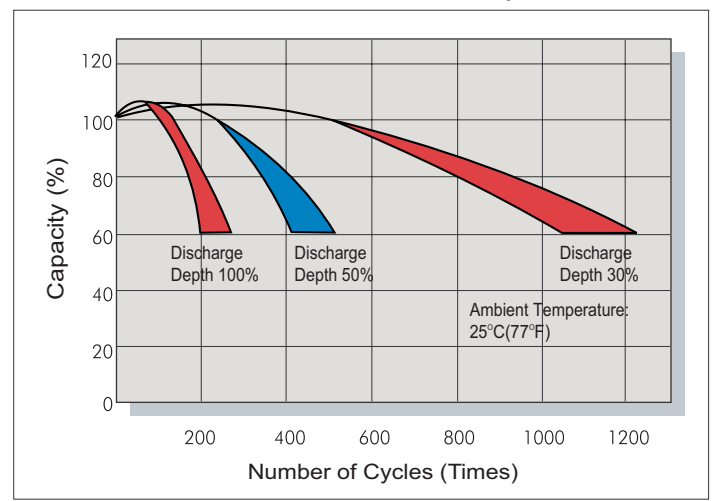
Capacity Retention Characteristic



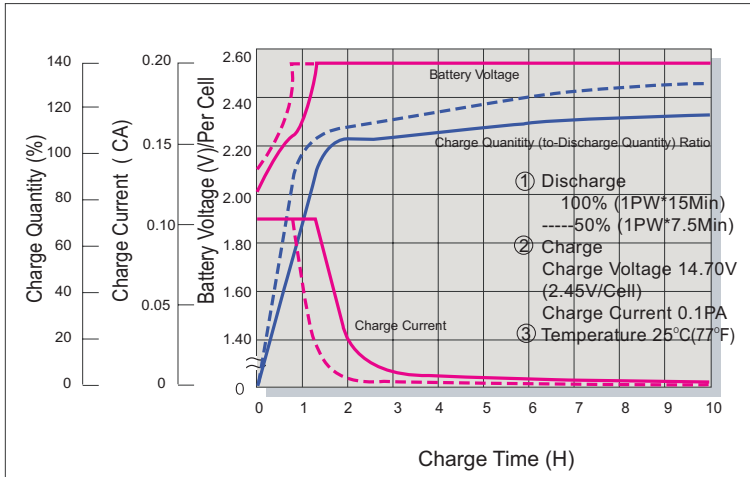
Battery Voltage and Charge Time for Standby Use



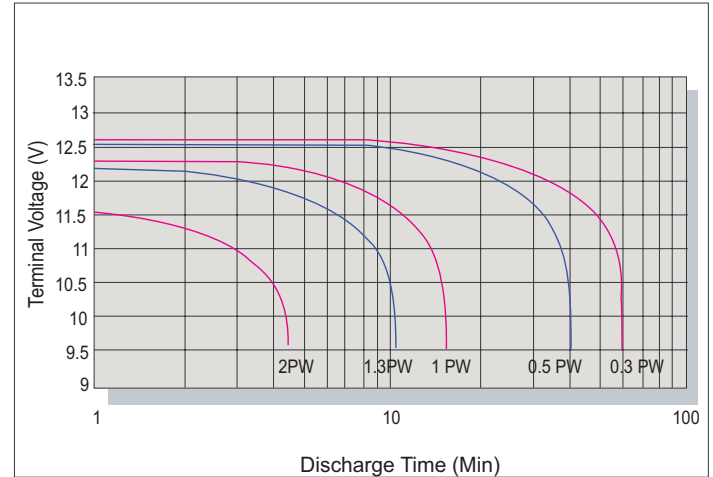
Cycle Service Life



Battery Voltage and Charge Time for Cycle Use



Terminal Voltage (V) and Discharge Time (25°C/77°F)



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	

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