

Battery could be used at the temperature -40~50°C

High Energy Density

Safe and Reliable

Design Life  
8 years @25°C

Normal Voltage	12 V
Capacity	92Ah @ 10hr to 1.80V per cell @ 25°C (77°F)
Weight	Approx. 35kg (77.16lbs)
Internal Resistance (full charged)	Approx. 5.0 mΩ @ 25°C (77°F)
Maximum Discharge Current	920A (5sec)
Self Discharge @ 25°C (77°F)	Less than 10% after 90 days storage
Operating Temperature Range	Discharge: -40°C ~ 50°C (-40°F ~ 122°F)
	Charge: -15°C ~ 40°C (5°F ~ 104°F)
	Storage: -15°C ~ 30°C (5°F ~ 86°F)
Recommended Operating Temperature	20°C ~ 30°C (68°F ~ 86°F)
Maximum Charging Current Limited	13.8A
Charging Voltage @ 25°C (77°F)	Float: 13.50V, Temps coefficient -18 mV/°C
	Cycle: 14.10 V
Contain Materials	94HB ABS (UL 94_V0 Optional)
Terminal	M6 and Pb (Integral Copper insert)
Capacity Affected by Temperature	109% @ 40°C
	88% @ 0°C
	70% @ -20°C

Approved Certificate:

UL:  
MH 27888  
MH 29493

TUV:  
R50011197

ISO 14001:  
00206E11022R0L

ISO 9001:  
0205Q14982R2L

ISO 18001:  
2004-316

Battery Standard:  
IEC 60896-2:2004

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

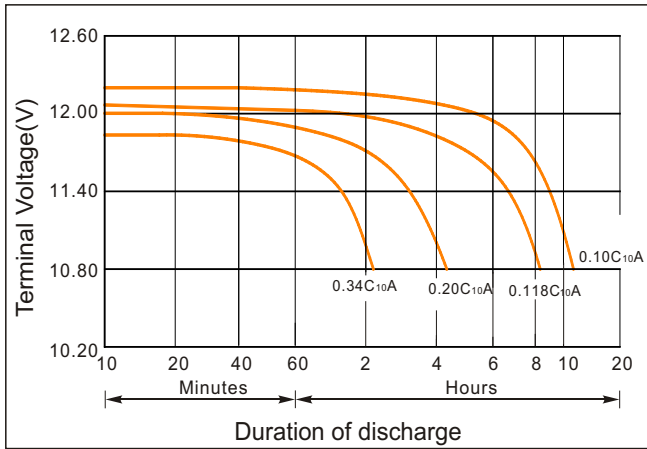
F.V/Time	30 min	1 Hr	2 Hr	3 Hr	4 Hr	5 Hr	6 Hr	8 Hr	10 Hr	12 Hr
1.70V/cell	97.5	58.2	34.3	25.0	19.7	16.6	14.2	11.1	9.4	8.0
1.75V/cell	93.8	57.0	33.8	24.8	19.5	16.5	14.1	11.0	9.3	7.9
1.80V/cell	88.3	54.6	33.1	24.6	19.3	16.4	14.0	10.9	9.2	7.8
1.83V/cell	85.3	53.4	32.5	24.4	19.1	16.2	13.9	10.9	9.1	7.8
1.85V/cell	81.0	52.2	32.5	24.0	19.0	16.1	13.8	10.9	9.1	7.8

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

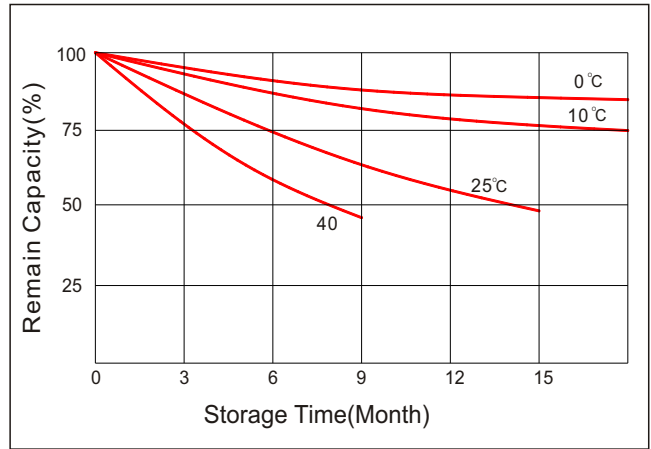
F.V/Time	30 min	1 Hr	2 Hr	3 Hr	4 Hr	5 Hr	6 Hr	8 Hr	10 Hr	12 Hr
1.70V/cell	184.0	112.2	66.2	50.7	40.9	33.2	28.9	22.4	18.9	16.1
1.75V/cell	182.2	111.6	64.4	50.1	40.3	32.9	28.3	22.1	18.8	15.9
1.80V/cell	179.7	109.8	63.8	49.5	39.7	32.7	27.8	21.8	18.7	15.9
1.83V/cell	173.0	106.7	62.6	48.9	39.5	32.5	27.6	21.7	18.6	15.9
1.85V/cell	176.0	107.9	62.6	48.9	38.9	32.4	27.3	21.6	18.5	15.7

This information is generally descriptive only and is not intended to make or imply any representation, guarantee or warranty with respect to any cells and batteries. Cell and battery designs/specifications are subject to modification without notice. Contact Coslight for the last information.

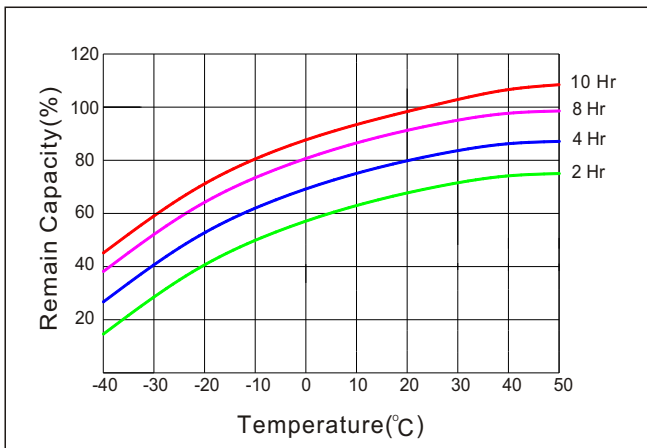
Discharge Performance  
at Different Discharge Rate



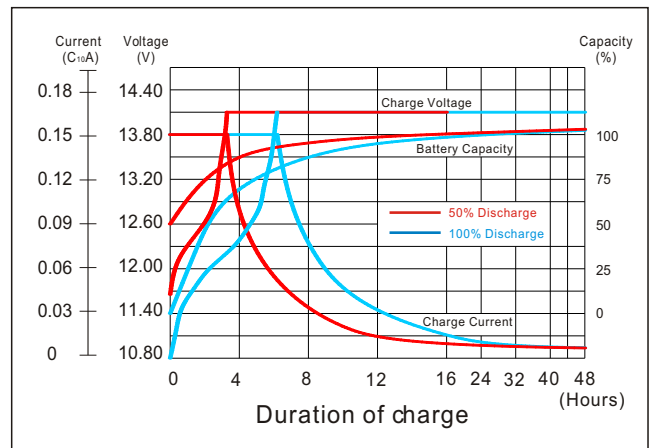
Curve of Storage Time and Self-discharge  
at Different Temperature



Capacity at Different Temperature



Constant Voltage Charge Characteristics



## Manufacturer Global Contact:

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