

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

High Energy Density

Safe and Reliable

Gel Technology

20 yrs Design Float  
Charge Life

Normal Voltage	2 V
Capacity	2000 Ah@10hr to 1.80V per cell @ 25°C (77°F)
Weight	Approx. 200.0kg (440.92lbs)
Internal Resistance (full charged)	Approx. 0.069 mΩ @ 25°C (77°F)
Maximum Discharge Current	20000 A(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	500 A
Charging Voltage @ 25°C (77°F)	Float: 2.23 V, Temps coefficient -3 mV/°C
	Cycle: 2.35 V
Contain Materials	94HB ABS(UL 94_V0 Optional)
Terminal	M8 and Copper
Capacity Affected by Temperature	109% @ 40°C
	88% @ 0°C
	70% @ -20°C

Approved Certificate:

TUV:  
R50031791

ISO 14001:  
00206E11022R0L

ISO 9001:  
0205Q14982R2L

ISO 18001:  
2004-316

Battery Standard:  
IEC 60896-2:2002  
DIN 43539-100

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

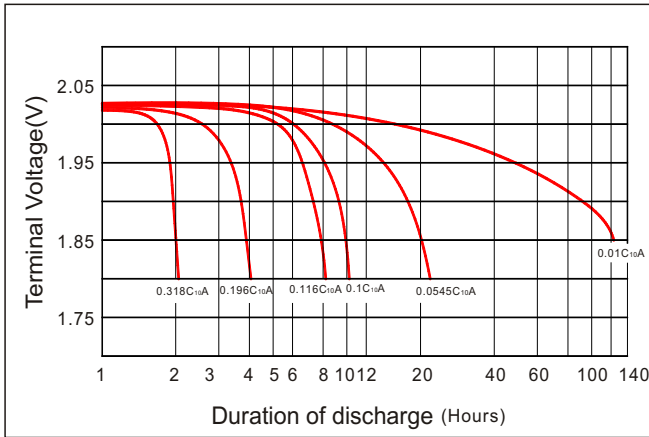
F.V/Time	2 Hr	3 Hr	4 Hr	5 Hr	6 Hr	8 Hr	10 Hr	12 Hr	20 Hr	100 Hr	120 Hr
1.80V	844	650	522	438	378	298	250	214.6	136.3	30.0	25.4
1.83V	800	620	500	422	364	286	240	206.3	133.8	29.5	24.8
1.85V	760	593	478	405	352	279	233	201.1	131.3	29.0	24.5
1.87V	720	566	456	388	340	272	226	195.8	128.8	28.5	24.2
1.90V	650	512	414	352	310	256	212	191.7	125.0	27.5	23.3

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

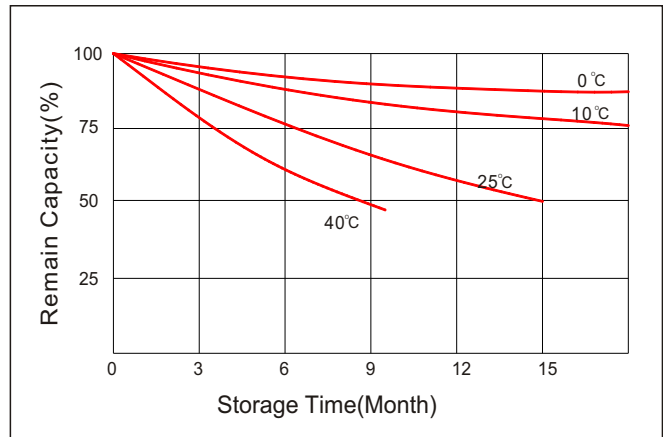
F.V/Time	2 Hr	3 Hr	4 Hr	5 Hr	6 Hr	8 Hr	10 Hr	12 Hr	20 Hr	100 Hr	120 Hr
1.80V	1631	1248	1008	855	735	581	488	419	266	59.5	50.5
1.83V	1516	1180	965	822	701	544	468	402	261	58.5	49.3
1.85V	1421	1123	922	788	674	522	454	392	256	57.5	48.7
1.87V	1328	1066	879	753	647	501	440	382	251	56.5	48.0
1.90V	1174	956	797	682	584	459	413	374	244	54.5	46.4

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.

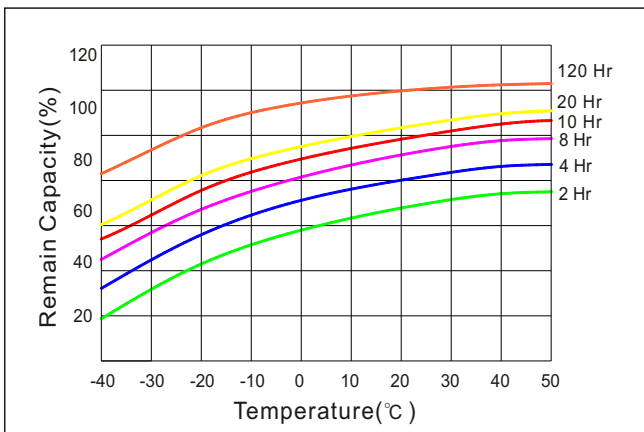
Discharge Performance at Different Discharge Rate



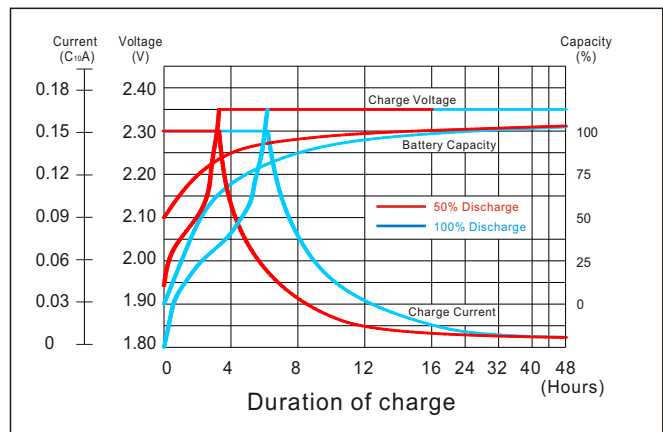
Curve of Storage Time and Self-discharge at Different Temperature



Capacity at Different Temperature



Constant Voltage Charge Characteristics



### Manufacturer Global Contact:

Nation	Contact	E-mail	Nation	Contact	E-mail
Russia	Wu zhengshu	Wuzhengshu@cncoslight.com	Germany	Jiang baohua	Baohua.jiang@coslight.net
South Africa	Ning xiaodong	Ningxiaodong@cncoslight.com	Britain	Sun yan	Sunyan@cncoslight.com
Pakistan Vietnam	Zhou qing	Zhouqing@cncoslight.com	Indonesia Malaysia	Wang hongbo	Coslight@tm.net.my
Brazil	Tan lei	Tanlei@cncoslight.com	Lebanon	Li junyi	Junyili64@hotmail.com
America	Ju changyu	Changyu.ju@coslight.com.cn	Korea	Piao haidong	Phd@cncoslight.com