

### LXR Series Battery

LXR series valve regulated lead-acid batteries adopt continuous rolling and stamping grid structure, AGM diaphragm and GEL electrolyte technology, Electrolytes don't undergo stratification, Reduce plate grid corrosion rate, effectively extending the battery's service life. LXR series Batteries are designed for 12 years life time floating design life at 25°C. Meet with IEC, BS, JIS and Eurobat standard.

### Application

- \*Emergency Power System
- \*Communication equipment
- \*Telecommunication systems
- \*Uninterruptible power supplies
- \*Electric toy car and wheelchairs, etc.

### General Features

- \*Safety Sealing
- \*Non-spillable construction
- \*High Reliability and Stability
- \*Sealed and Maintenance-free
- \*Safety and Quality Certification
- \*Longer Life and low self-discharge design

- \*Power tools
- \*Alarm system
- \*Marine equipment
- \*Medical equipment
- \*Fire and Security System



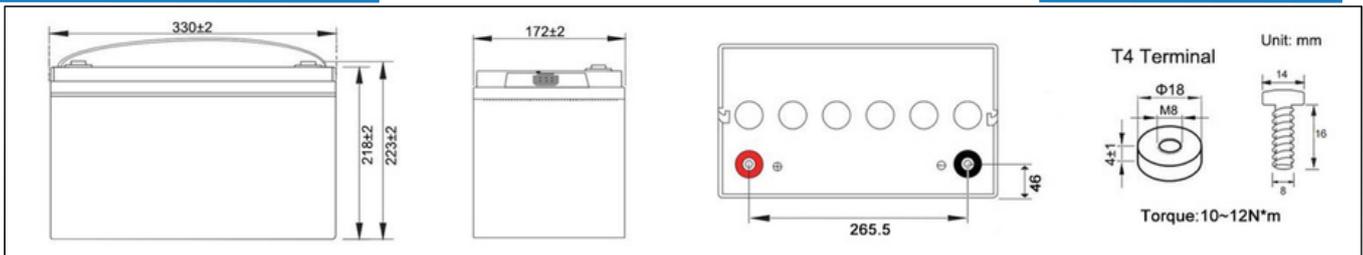
### Construction

- \*Positive.....Lead dioxide
- \*Electrolyte....Sulfuric acid thixotropic Gel
- \*Separator.....Macromolecule polymer
- \*Container.....ABS(UL94-HB)/FlameRetardantABS(UL94-V0)
- \*Negative.....Lead
- \*Safety Valve.....EPDR
- \*Terminal.....Copper

### Specification

Battery Model	Nominal Voltage		12V (6 cells per unit)	
	Rated capacity (10 Hour rate)		105Ah	
Dimension	Length	Width	Height	Total Height
	330 mm (12.99 inches)	172 mm (6.77 inches)	218 mm (8.58 inches)	223 mm (8.78 inches)
Approx Weight	30 kg (66.17lbs) ± 2kg			
Internal Resistance	Full charged at 25°C(77°F) :Approx 3.78mΩ			
Maximum Charge Current	30A			
Max. discharge current	1000A (5Sec.)			
Short Circuit Current	1950A			
Operating Temperature Range	Nominal Operating Temperature	Discharge	Charge	Storage
	25°C(77°F)	-15°C~50°C(5°F~122°F)	-15°C~40°C(5°F~104°F)	-15°C~40°C(5°F~104°F)
Capacity @ 25°C (77°F)	10 hour rate(10.5A,10.8V)	5 hour rate(17.65A,10.5V)	3 hour rate (25.71A,10.2V)	1 hour rate (58.8A,9.6V)
	105.0Ah	88.25Ah	77.14Ah	58.8Ah
Capacity affected by Temp.(10HR)	40°C(104°F)	25°C(77°F)	0°C(32°F)	-15°C(5°F)
	102%	100%	85%	65%
Charge method at 25°C(77°F)	Float Charging Voltage	Equalization Charging Voltage	Cycle Use Voltage	
	13.5-13.8VDC(-3mV/cell/°C)	14.1-14.4VDC(-4mV/cell/°C)	14.4-15.0VDC(-5mV/cell/°C)	

### Outer dimension (mm)

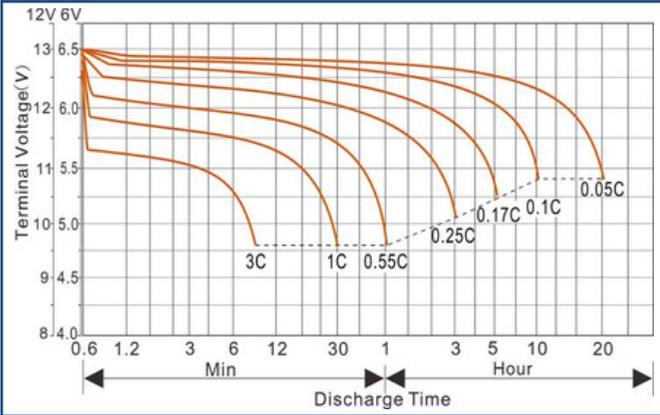


### Terminal Type

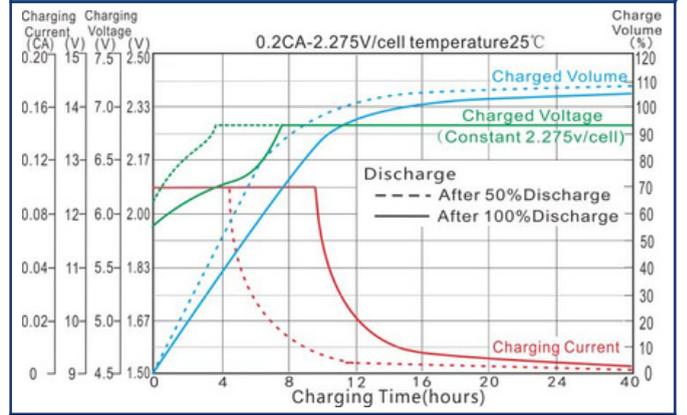
### Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25°C(77°F)

F.V/Time		5min	10min	15min	20min	30min	1h	2h	3h	5h	8h	10h	20h
1.85V/cell	A	216	166	134	113	88	53.4	33.39	24.17	16.65	11.81	9.89	5.25
	W	403	316	259	219	171	105.6	66.59	48.39	33.46	23.77	19.92	10.59
1.80V/cell	A	243	180	145	119	91	54.6	33.98	24.63	16.98	12.00	10.00	5.30
	W	447	338	275	229	177	107.3	67.47	49.16	34.04	24.11	20.11	10.68
1.75V/cell	A	267	193	152	126	95	55.6	34.38	25.03	17.25	12.17	10.07	5.35
	W	485	357	289	241	182	109.0	68.16	49.85	34.54	24.41	20.22	10.77
1.70V/cell	A	290	204	160	131	98	56.6	34.87	25.38	17.50	12.31	10.13	5.39
	W	518	376	300	248	187	110.4	68.95	50.45	34.95	24.67	20.31	10.84
1.67V/cell	A	303	210	164	134	99	57.1	35.07	25.53	17.60	12.37	10.16	5.41
	W	536	383	306	253	189	111.2	69.25	50.70	35.13	24.77	20.36	10.88
1.60V/cell	A	321	219	170	139	101	57.8	35.46	25.81	17.74	12.44	10.20	5.43
	W	561	396	313	260	192	112.3	69.84	51.17	35.38	24.89	20.43	10.91

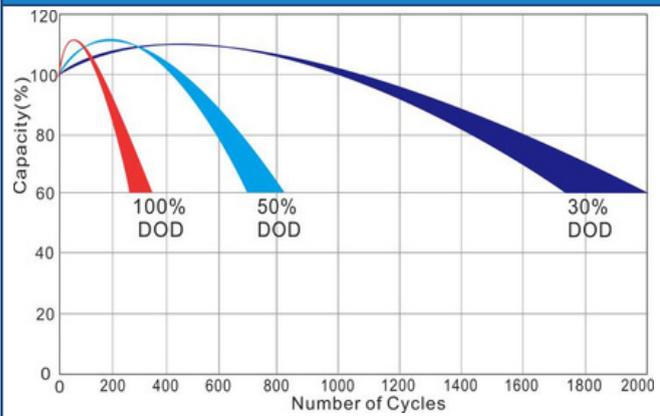
Discharge characteristic curve (25°C/77°F)



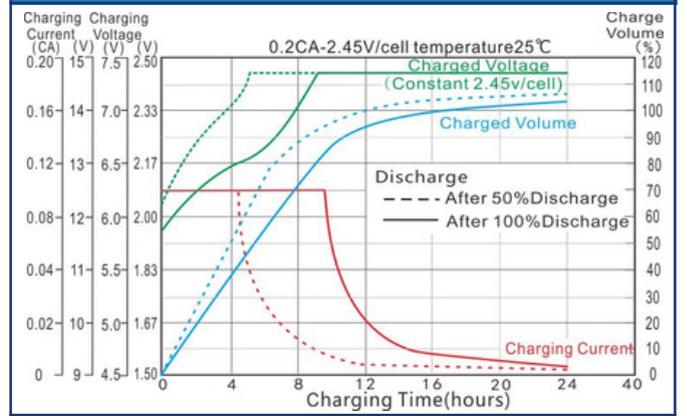
Charging characteristic curve of floating charge (25°C/77°F)



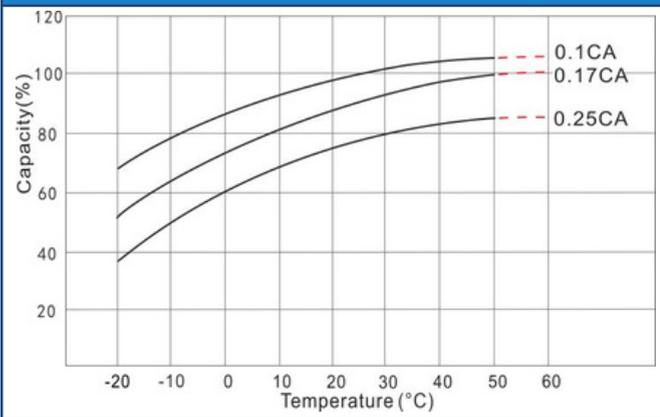
Cycle service life in relation to depth of discharge



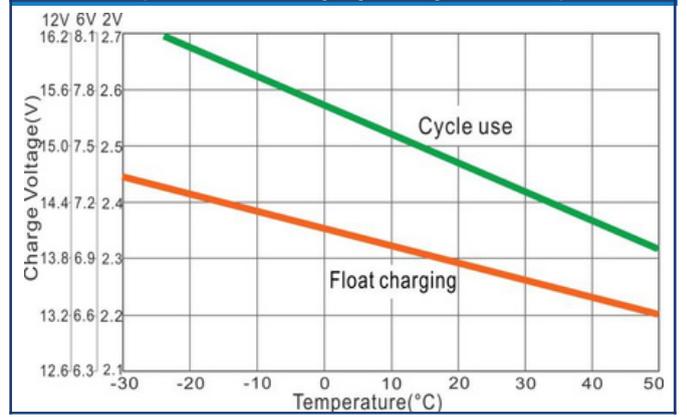
Cyclic charging characteristic curve (25°C/77°F)



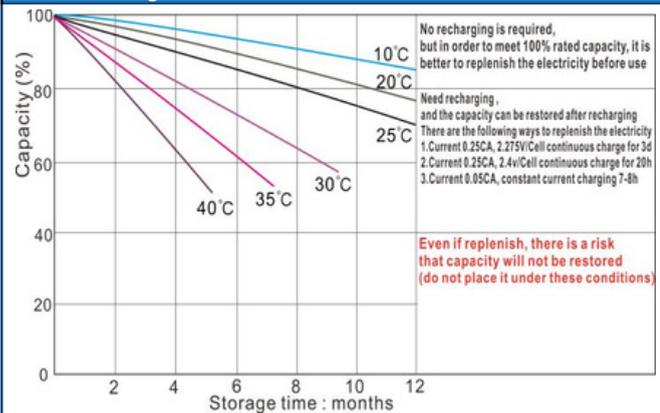
Relationship between temperature and capacity



Relationship between charging voltage and temperature



Self discharge characteristics



Temperature vs Float Life

