

LXR Series Battery

The LXR series batteries use AGM separators technology with Gel electrolyte, 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.
- *Power tools
- *Alarm system
- *Marine equipment
- *Medical equipment
- *Fire and Security System

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



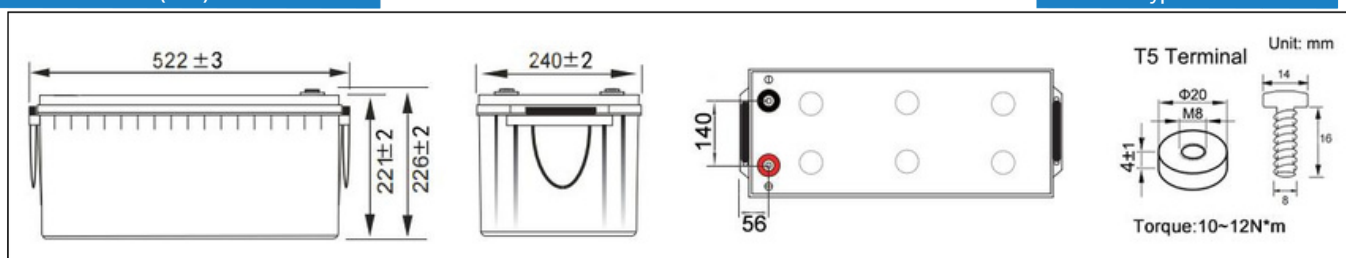
Construction

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

Specification

Battery Model	Nominal Voltage		12V(6 cells per unit)	
	Rated capacity(10 Hour rate)		210Ah	
Dimension	Length	Width	Height	Total Height
	522mm(20.55inches)	240mm(9.45inches)	221mm(8.70inches)	226mm(8.90inches)
Approx Weight	60 kg (133.38lbs) ± 3%			
Internal Resistance	Full charged at 25°C(77°F): Approx 2.16mΩ			
Maximum Charge Current	60A			
Max.discharge current	1600A(5Sec.)			
Short-circuit current	3200A			
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(20.90A,10.8V)	5 hour rate(36.89A,10.5V)	3 hour rate(56.1A,10.2V)	1 hour rate(128.4A,9.6V)
	210Ah	184.5Ah	168.3Ah	128.4Ah
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)

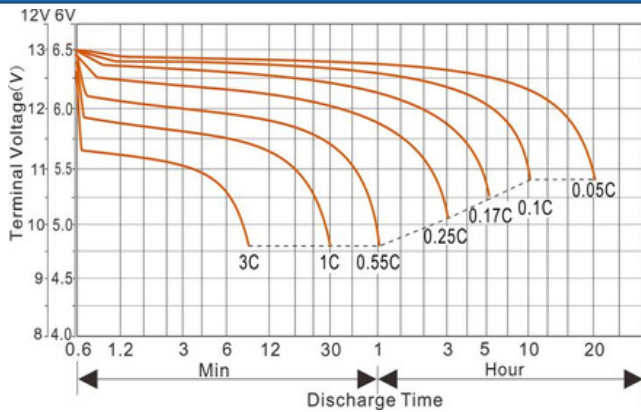


Terminal Type

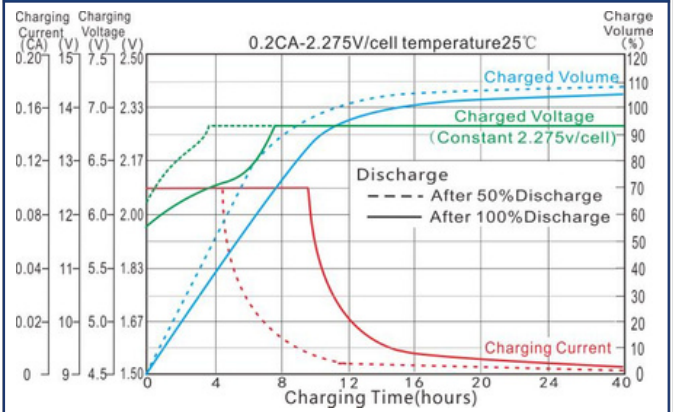
Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25°C(77°F)

F.V/Time		5min	10min	15min	20min	30min	1h	2h	3h	5h	8h	10h	20h
1.85V/cell	A	366	299	253	221	181	115.6	69.5	52.3	34.85	23.98	19.75	10.47
	W	688	565	483	425	349	224.4	136.5	103.1	69.11	47.76	39.60	20.85
1.80V/cell	A	413	335	280	240	192	119.6	72.0	53.7	35.55	24.38	20.05	10.67
	W	762	618	523	454	367	229.3	141.1	105.7	70.30	48.56	40.00	21.05
1.75V/cell	A	455	368	304	257	203	121.5	73.7	54.4	36.24	24.78	20.25	10.77
	W	823	663	562	481	382	234.2	144.0	107.3	71.60	49.25	40.50	21.25
1.70V/cell	A	487	397	323	272	210	124.5	75.3	55.1	36.74	25.07	20.45	10.87
	W	873	706	593	506	394	238.1	146.8	108.7	72.59	49.65	40.90	21.45
1.67V/cell	A	511	415	338	281	215	126.4	76.6	55.8	37.24	25.27	20.65	10.97
	W	907	733	615	519	401	240.1	148.5	109.6	73.48	49.85	41.20	21.65
1.60V/cell	A	545	439	359	297	224	128.4	78.3	56.8	37.83	25.57	20.85	11.07
	W	955	773	647	543	417	244.0	151.5	111.1	74.48	50.25	41.60	21.85

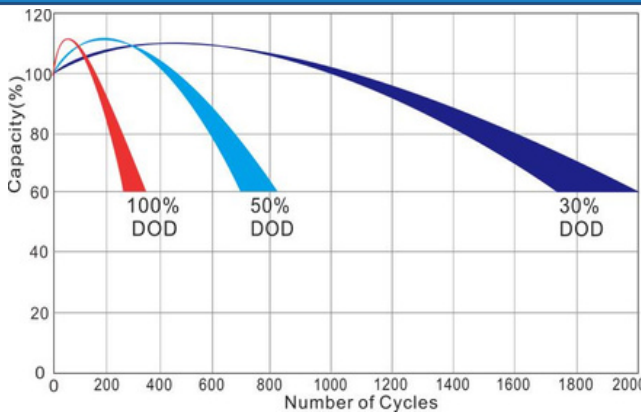
Discharge characteristic curve (25°C/77°F)



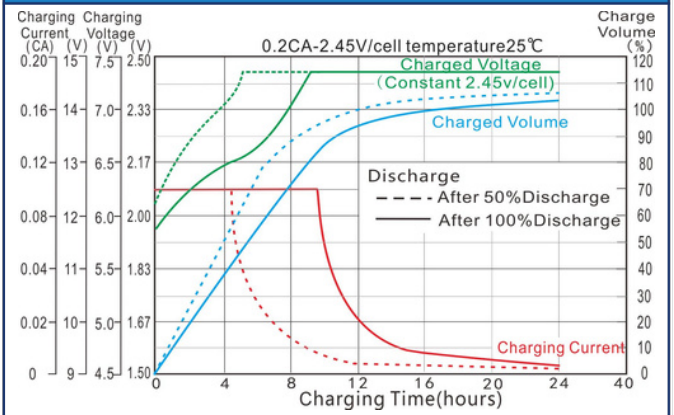
Charging characteristic curve of floating charge (25°C/77°F)



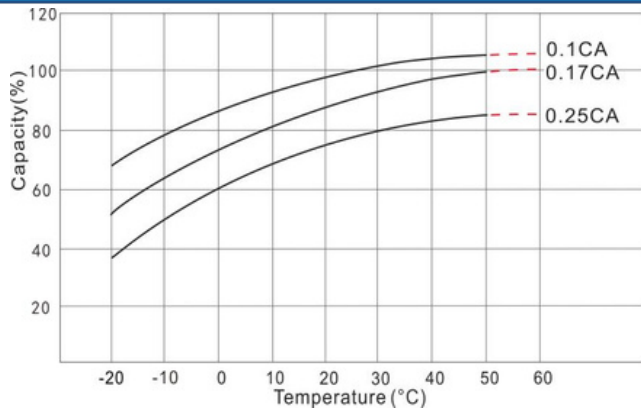
Cycle service life in relation to depth of discharge



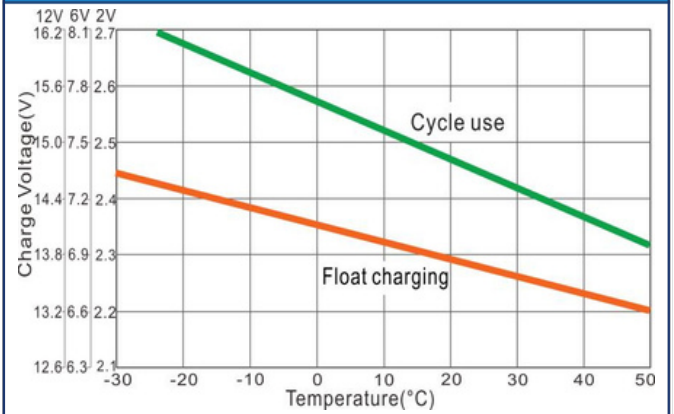
Cyclic charging characteristic curve (25°C/77°F)



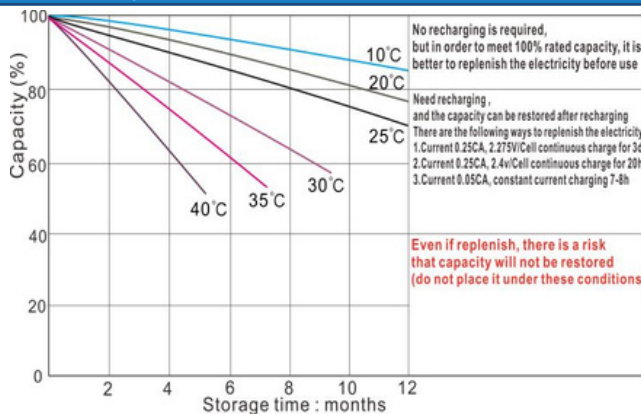
Relationship between temperature and capacity



Relationship between charging voltage and temperature



Self discharge characteristics



Temperature vs Float Life

