

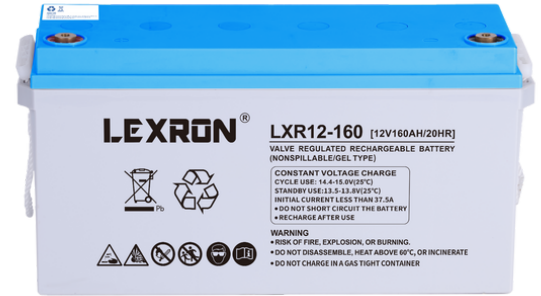
LXR Series Battery

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

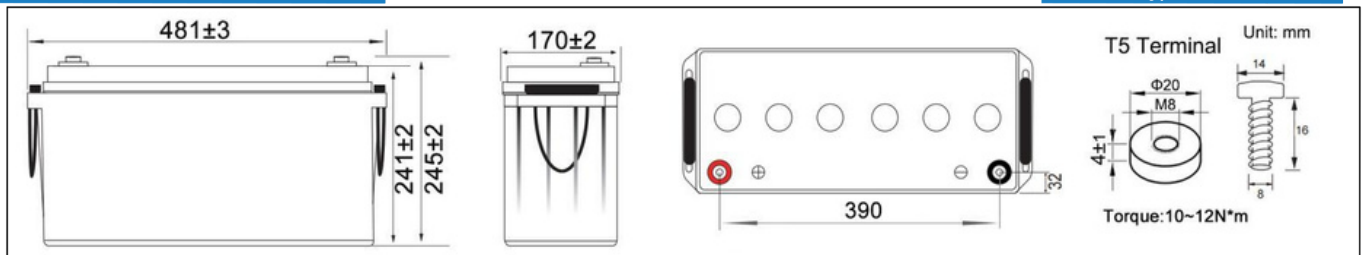
Construction

- *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)		160Ah	
Dimension	Length	Width	Height	Total Height
	481mm(18.93inches)	170mm(6.69inches)	242mm(9.53inches)	247mm(9.72inches)
Approx Weight	44.5kg (96.34lbs) ± 3%			
Internal Resistance	Full charged at 25°C(77°F): Approx 3.31mΩ			
Maximum Charge Current	45A			
Max.discharge current	1200A (5Sec.)			
Short-circuit current	2400A			
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(16.0A,10.8V)	5 hour rate(29.51A,10.5V)	3 hour rate(41.76A,10.2V)	1 hour rate(100.6A,9.6V)
	160.0Ah	147.55Ah	125.3Ah	100.6Ah
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	
	13.5~13.8 VDC (-3mV/cell/°C)		14.1~14.4VDC(-4mV/cell/°C)	
			Cycle Use Voltage	
			14.4~15.0VDC(-5mV/cell/°C)	

Outer dimension (mm)

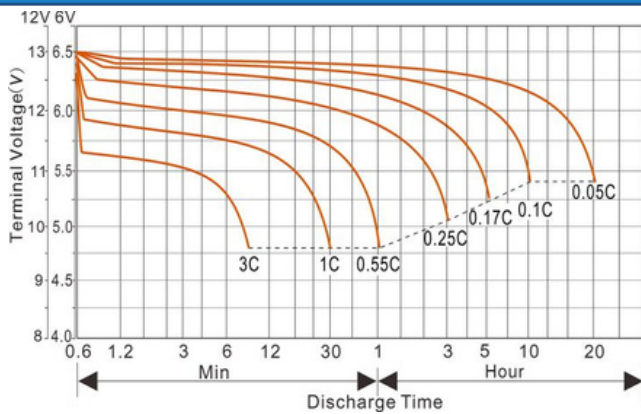


Terminal Type

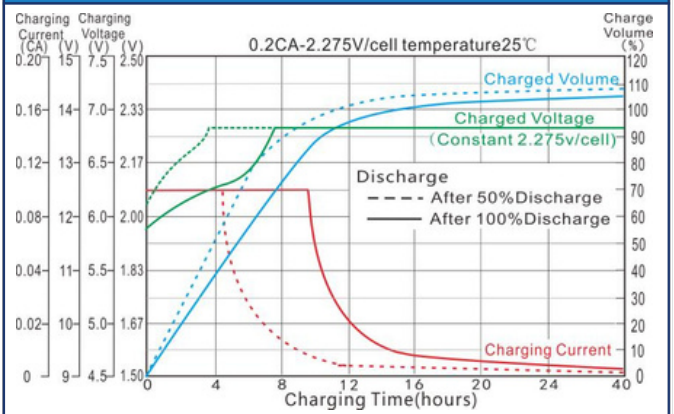
Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25°C(77°F)

F.V/Time		5min	10min	15min	20min	30min	1h	2h	3h	5h	8h	10h	20h
1.85V/cell	A	290	238	194	173	141	85.7	49.7	38.0	25.62	17.40	14.70	7.83
	W	546	450	372	331	271	165.3	97.2	75.0	50.64	34.60	29.50	15.89
1.80V/cell	A	319	260	209	182	148	88.5	51.4	38.8	26.02	17.70	15.00	7.96
	W	595	486	395	345	284	171.5	100.0	76.3	51.34	35.00	29.80	15.98
1.75V/cell	A	349	281	222	191	154	91.1	52.7	39.6	26.31	17.90	15.20	8.05
	W	638	520	415	360	293	176.0	102.0	77.4	51.83	35.40	30.10	16.08
1.70V/cell	A	377	301	233	200	161	93.2	53.6	40.1	26.71	18.10	15.40	8.12
	W	672	549	433	373	301	178.4	103.0	78.0	52.43	35.70	30.40	16.14
1.67V/cell	A	387	309	239	206	164	94.5	54.1	40.5	27.01	18.30	15.50	8.16
	W	685	559	440	380	304	180.1	103.6	78.8	52.73	36.00	30.60	16.22
1.60V/cell	A	411	325	254	214	169	96.6	55.0	41.1	27.41	18.60	15.70	8.25
	W	720	578	459	393	311	181.4	104.8	79.7	53.32	36.50	30.90	16.31

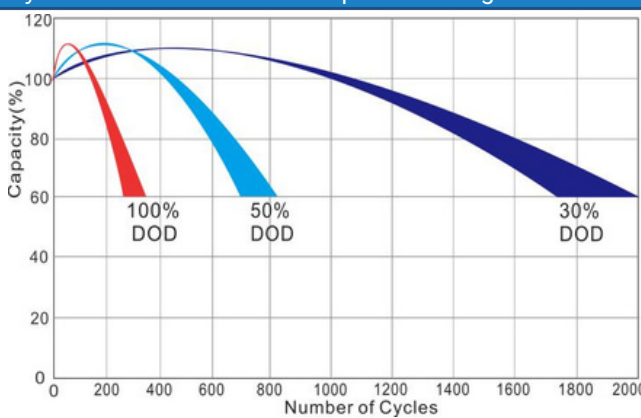
Discharge characteristic curve (25°C/77°F)



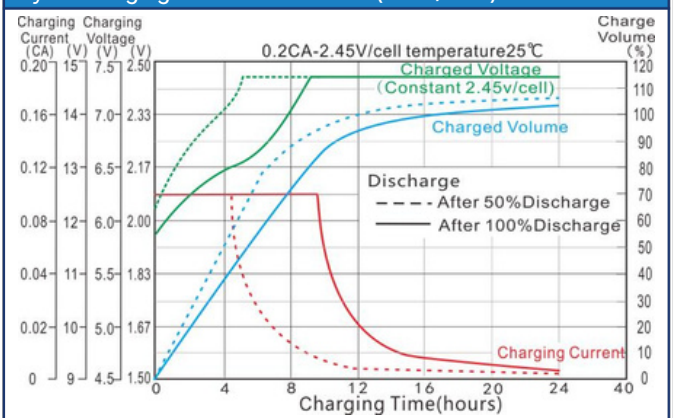
Charging characteristic curve of floating charge (25°C/77°F)



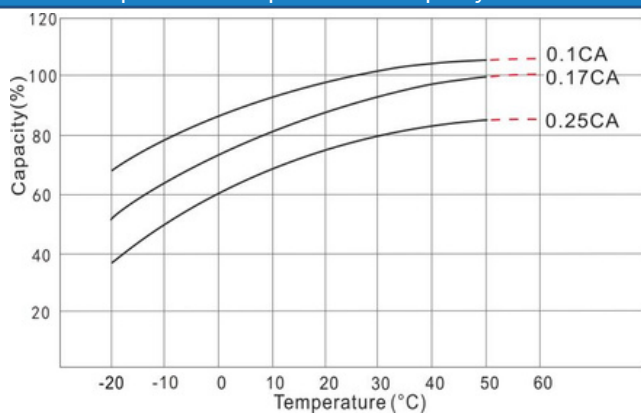
Cycle service life in relation to depth of discharge



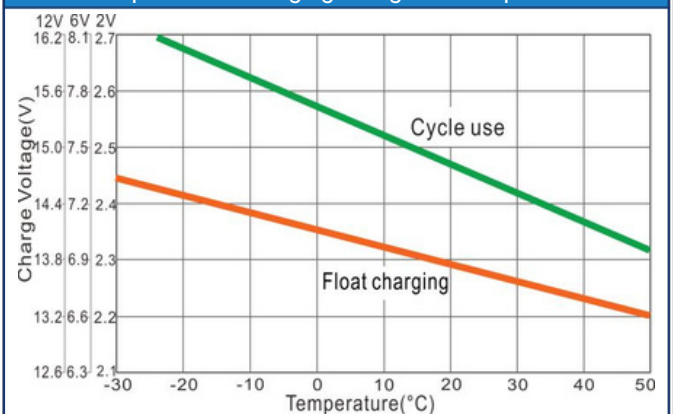
Cyclic charging characteristic curve (25°C/77°F)



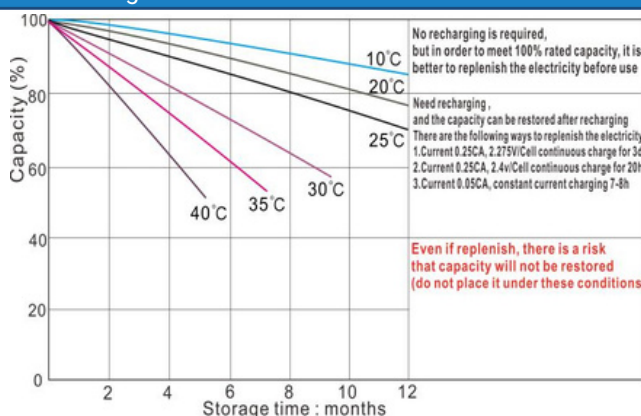
Relationship between temperature and capacity



Relationship between charging voltage and temperature



Self discharge characteristics



Temperature vs Float Life

