

General Series battery

UX Series VRLA batteries are designed with a continuous rolling and stamping grid structure extremely low corrosion rate. The internal use of mechanical through wall welding reduces internal resistance, which is conducive to high current discharge. UX Series Batteries are the general purpose batteries with 12 years floating design life at 25°C, Meet with IEC,BS,JIS and Eurobat standard,UL(MH62092),CE approved.

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 SecuritySystem

General features

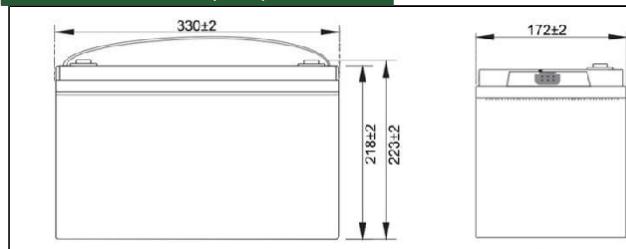
- * Heavy Duty Grid
- * Mechanized assembly
- * Non-spillable construction
- * High Reliability and Stability
- * Sealed and Maintenance-free
- * Long Life and low self-discharge design

Specification

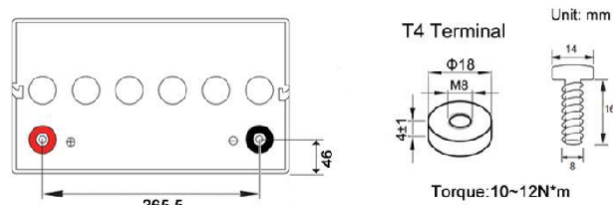
Battery Model	Nominal Voltage		12V (6 cells per unit)	
	Rated capacity (10 Hour rate)		100Ah	
Dimension	Length	Width	Height	Total Height
	330mm (12.99 inches)	172mm (6.77 inches)	218mm (8.58 inches)	223mm (8.78 inches)
Approx Weight	28.2kg(62.17lbs) ± 3%			
Internal Resistance	Full charged at 25°C(77°F):Approx 3.78(mΩ/25°C± 15%)			
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(10.0A,10.8V)	5 hour rate(17.19A,10.5V)	3 hour rate(25.27A,10.2V)	1 hour rate(62.0A,9.6V)
	100.0Ah	86.0Ah	75.8Ah	62.0Ah
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
	13.5~13.8 VDC (-3mV/cell/°C)		14.1~14.4 VDC (-4mV/cell/°C)	14.4~15.0 VDC (-5mV/cell/°C)



Outer Dimension (mm)



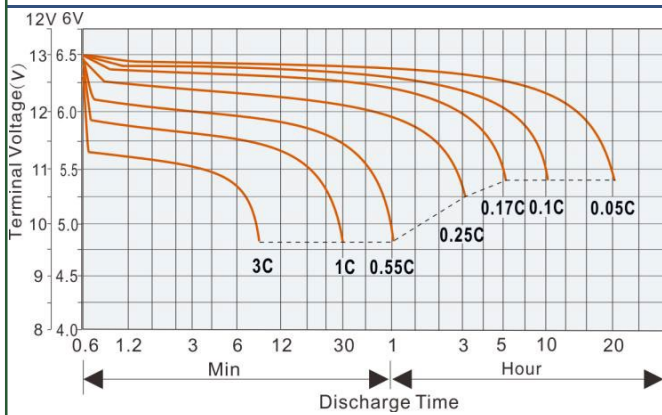
Terminal type



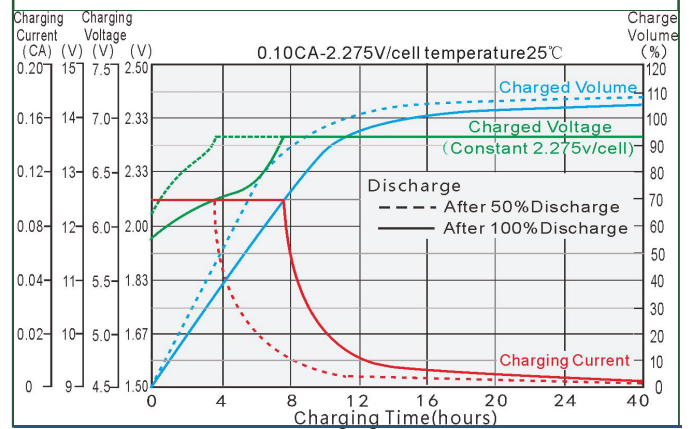
Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25°C(77°F)

F.V/Time		5min	10min	15min	20min	30min	1h	1.5h	2h	3h	5h	8h	10h	20h
1.85V/cell	A	225	180	146	123	92.5	55.8	41.0	33.0	24.04	16.70	11.81	9.89	5.25
	W	421	343	281	239	181.0	110.3	81.5	65.8	48.13	33.56	23.77	19.92	10.59
1.80V/cell	A	250	192	155	129	96.0	57.3	42.0	33.7	24.50	17.00	12.00	10.00	5.30
	W	460	361	295	248	186.0	112.7	83.1	67.0	48.91	34.08	24.11	20.11	10.68
1.75V/cell	A	274	203	163	135	99.4	58.7	42.9	34.3	24.91	17.19	12.12	10.07	5.35
	W	496	377	308	258	192.0	115.0	84.6	68.0	49.62	34.39	24.31	20.22	10.77
1.70V/cell	A	297	214	171	140	102.7	60.1	43.7	34.8	25.27	17.36	12.22	10.13	5.39
	W	530	393	320	265	197.0	117.2	85.9	68.8	50.23	34.67	24.48	20.31	10.84
1.67V/cell	A	309	220	175	143	104.4	60.8	44.1	35.1	25.42	17.43	12.25	10.16	5.41
	W	547	402	326	270	199.0	118.4	86.6	69.3	50.48	34.79	24.53	20.36	10.88
1.60V/cell	A	330	230	182	148	107.5	62.0	44.8	35.5	25.70	17.55	12.30	10.20	5.43
	W	577	416	336	278	205.0	120.4	87.8	70.0	50.96	34.99	24.61	20.43	10.91

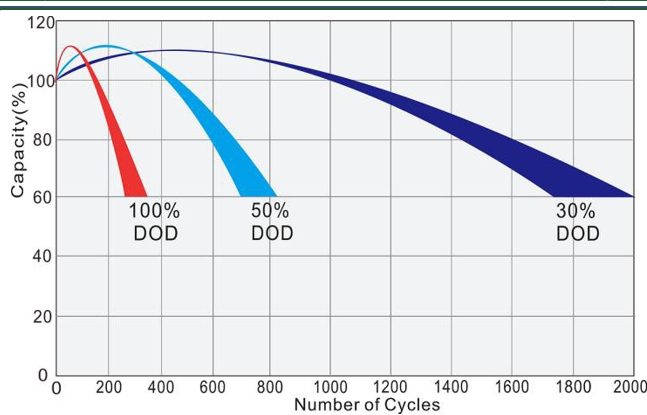
Discharge characteristic curve (25°C/77°F)



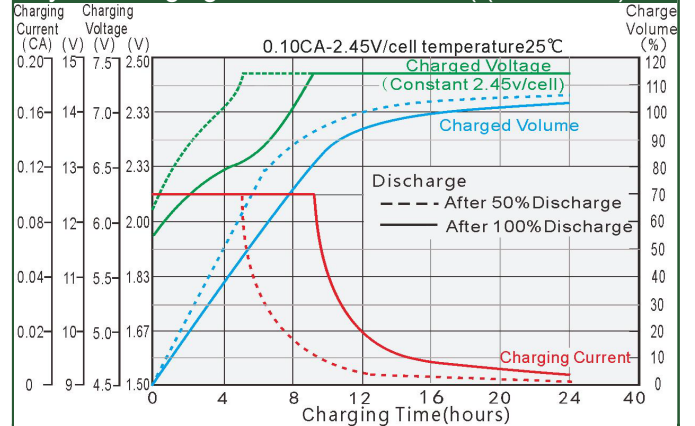
Charging characteristic curve of floating charge (25°C/77°F)



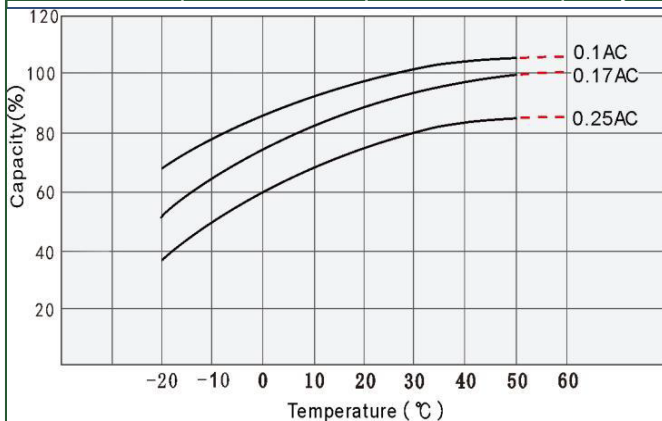
Cycle service life in relation to depth of discharge



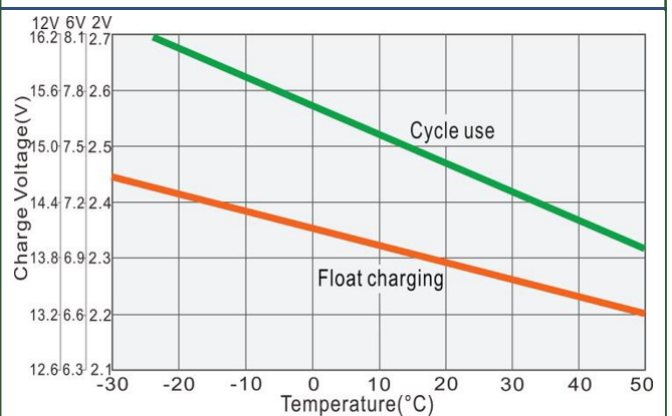
Cyclic charging characteristic curve (25°C/77°F)



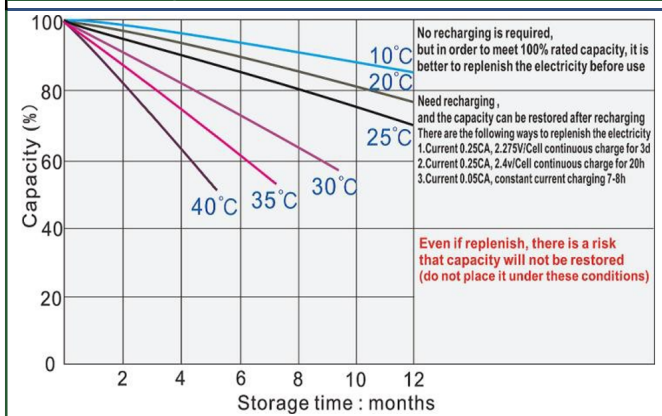
Relationship between temperature and capacity



Relationship between charging voltage and temperature



Self discharge characteristics



Temperature vs Float Life

