



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

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

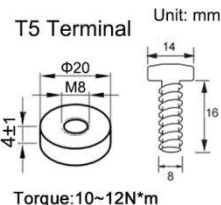
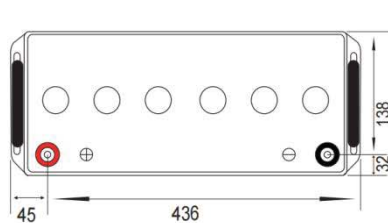
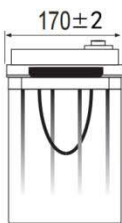
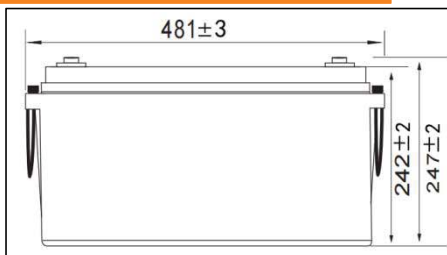
Construction

- * Positive Lead dioxide
- * Electrolyte . . . Sulfuric acid
- * Separator Fiber glass
- * 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)		150Ah	
Dimension	Length	Width	Height	Total Height
	481mm (18.93 inches)	170mm (6.69 inches)	242mm (9.52 inches)	247mm (9.72 inches)
Approx Weight	40.8kg(89.94 lbs) ± 3%			
Internal Resistance	Full charged at 25°C(77°F): Approx 3.40mΩ			
Maximum Charge Current	45A			
Max. discharge current	1200A (5Sec.)			
Short-circuit current	2000A			
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(15.0A, 10.8V)	5 hour rate(25.72A, 10.5V)	3 hour rate(39.2A, 10.2V)	1 hour rate(94.5A, 9.6V)
	150.0Ah	128.6Ah	117.6Ah	94.5Ah
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	Float Charging Voltage		Equalization Charging Voltage	
	13.5 ~ 13.8 VDC/Unit at 25°C (77°F)		14.4~ 15.0 VDC/Unit at 25°C (77°F)	

Outer dimension (mm)

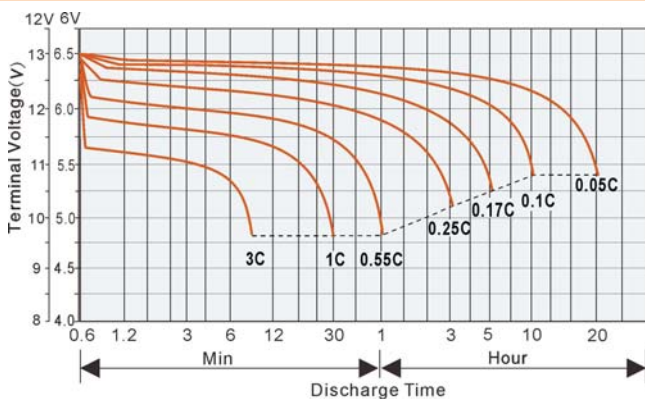


Terminal Type

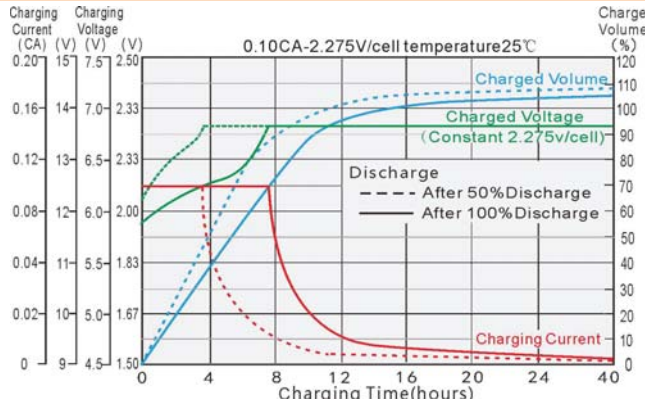
Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25°C(77°F)

F.V/Time		5min	10min	15min	20min	30min	1h	2h	3h	5h	8h	10h	20h
1.85V/cell	A	285	240	200	172	140	83.0	49.9	36.9	24.80	17.70	14.70	7.83
	W	527	450	379	329	271	162.0	98.3	73.0	49.34	35.34	29.38	15.67
1.80V/cell	A	317	264	219	186	147	86.0	51.3	37.8	25.30	18.00	15.00	7.99
	W	576	488	410	353	282	167.0	100.7	74.6	50.21	35.86	29.94	15.97
1.75V/cell	A	347	286	237	199	153	88.8	52.6	38.5	25.72	18.25	15.20	8.09
	W	619	520	437	373	291	172.0	102.9	75.8	50.94	36.30	30.30	16.16
1.70V/cell	A	376	307	254	211	158	91.3	53.8	39.2	26.10	18.47	15.40	8.20
	W	658	550	462	391	298	176.0	104.9	77.0	51.59	36.68	30.66	16.36
1.67V/cell	A	390	317	262	216	161	92.5	54.3	39.5	26.24	18.55	15.50	8.25
	W	677	563	474	398	303	178.0	105.8	77.6	51.83	36.82	30.85	16.46
1.60V/cell	A	415	335	275	225	165	94.5	55.1	40.0	26.50	18.70	15.60	8.31
	W	708	587	492	411	308	181.0	107.1	78.4	52.28	37.08	31.03	16.57

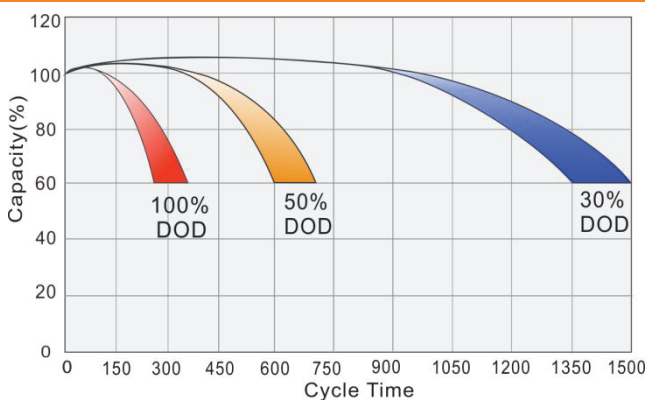
Discharge characteristic curve (25°C/77°F)



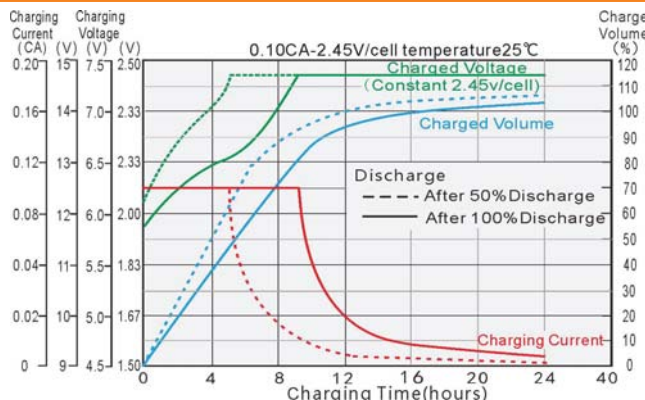
Charging characteristic curve of floating charge (25°C/77°F)



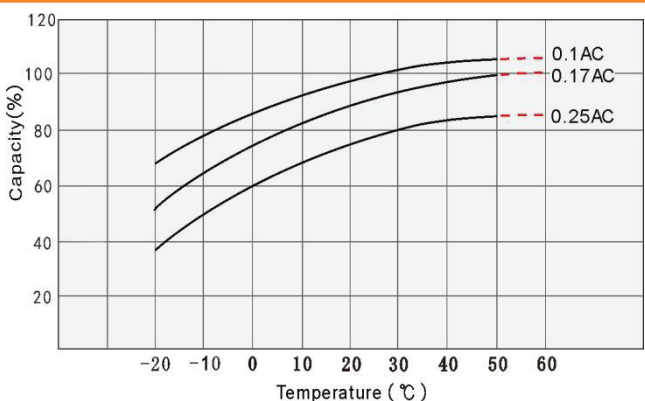
Cycle service life in relation to depth of discharge



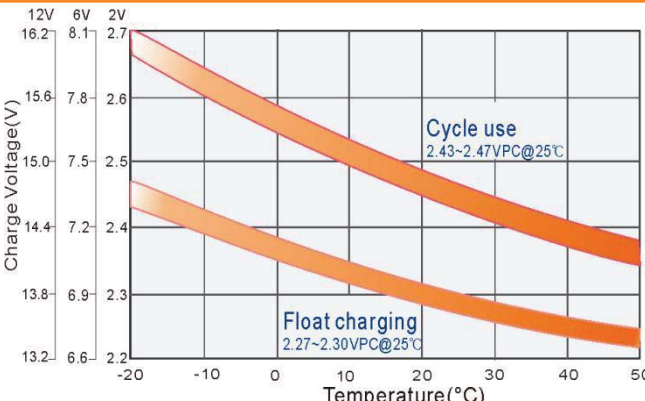
Cyclic charging characteristic curve (25°C/77°F)



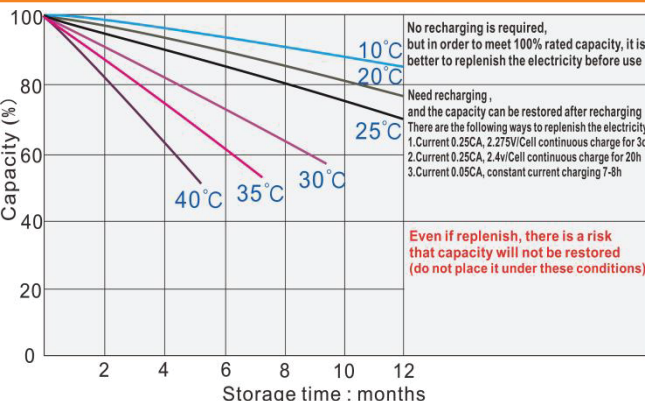
Relationship between temperature and capacity



Relationship between charging voltage and temperature



Self Discharge Characteristics



Temperature vs Float Life

