

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

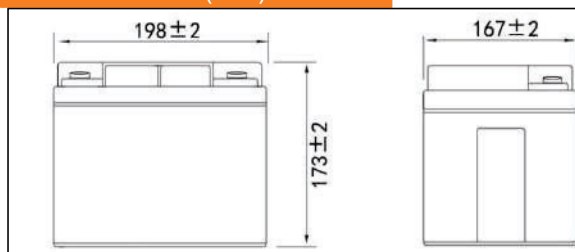
Construction

- * 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

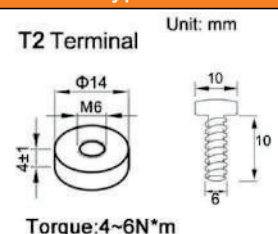
Specification

Battery Model	Nominal Voltage		12V (6 cells per unit)	
	Rated capacity (10 Hour rate)		42Ah	
Dimension	Length	Width	Height	Total Height
	198mm (7.79 inches)	167mm (6.57 inches)	173mm (6.81 inches)	173mm (6.81 inches)
Approx Weight	12.40kg(27.34 lbs) ± 3%			
Internal Resistance	Full charged at 25°C(77°F):Approx 6.85mΩ			
Maximum Charge Current	12.6A			
Max.discharge current	630A (5Sec.)			
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)	20 hour rate(2.32A,10.5V)	10 hour rate(4.33A,10.5V)	5 hour rate(8.15A,10.5V)	1 hour rate(30.5A,9.6V)
	46.4Ah	43.3Ah	40.75Ah	30.5Ah
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)



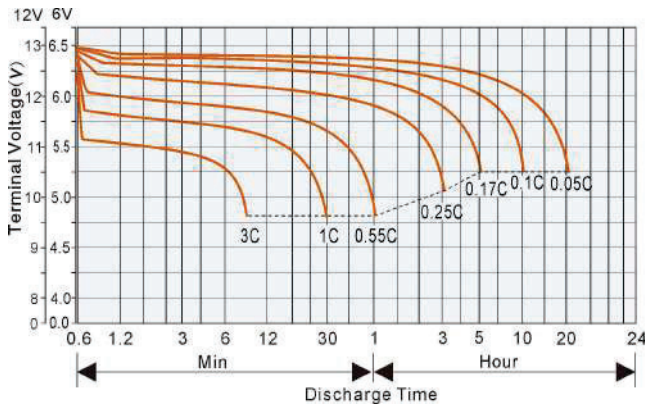
Terminal Type



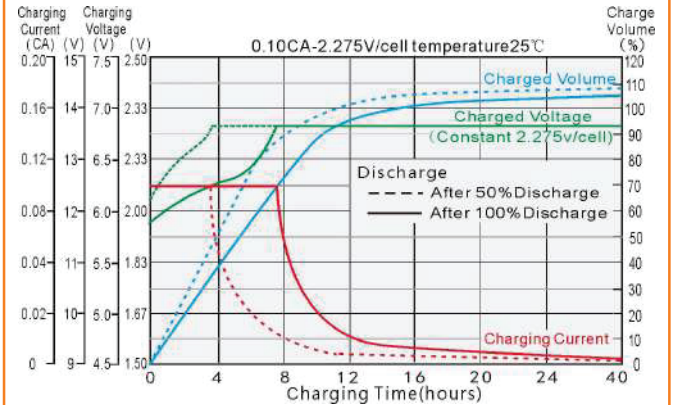
Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25°C(77°F)

F.V/Time		5min	10min	15min	20min	30min	1h	2h	3h	5h	8h	10h	20h
1.85V/cell	A	118	91	73.5	61.0	44.5	25.80	16.30	11.70	7.80	5.45	4.18	2.23
	W	228	177	144	120	87.5	51.02	32.36	23.30	15.59	10.96	8.43	4.48
1.80V/cell	A	132	98	77.7	64.3	46.5	26.90	16.77	12.12	7.98	5.54	4.26	2.28
	W	254	189	150	126	91.0	52.83	33.07	24.02	15.88	11.09	8.55	4.56
1.75V/cell	A	145	105	81.8	67.5	48.7	27.98	17.22	12.52	8.15	5.62	4.33	2.32
	W	276	201	157	131	94.7	54.51	33.75	24.66	16.14	11.19	8.65	4.63
1.70V/cell	A	157	111	85.8	70.6	50.8	29.05	17.65	12.90	8.31	5.69	4.39	2.35
	W	294	210	163	136	97.8	56.07	34.27	25.18	16.35	11.26	8.71	4.67
1.67V/cell	A	164	114	87.8	72.2	52.0	29.54	17.87	13.08	8.38	5.71	4.41	2.36
	W	306	214	165	137	99.2	56.64	34.47	25.36	16.37	11.22	8.70	4.69
1.60V/cell	A	177	122	92.5	75.2	54.0	30.50	18.25	13.40	8.50	5.75	4.45	2.37
	W	317	222	170	140	101.0	58.06	34.95	25.79	16.49	11.22	8.74	4.71

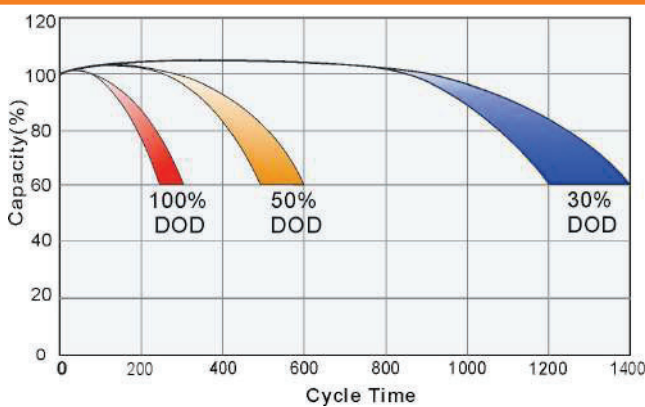
Discharge characteristic curve (25°C/77°F)



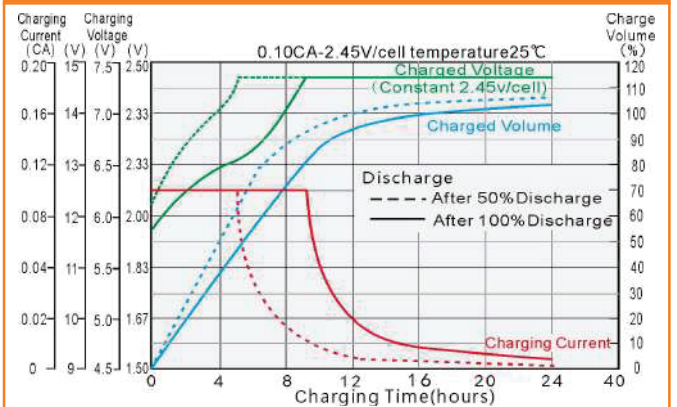
Charging characteristic curve of floating charge (25°C/77°F)



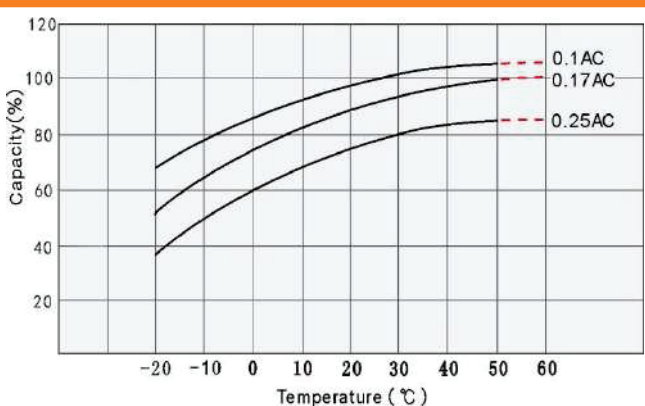
Cycle service life in relation to depth of discharge



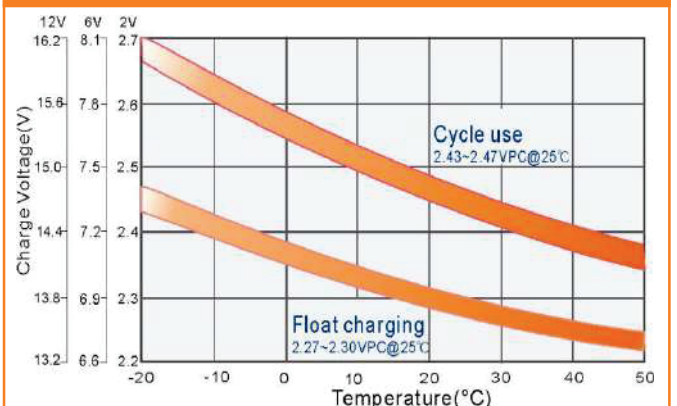
Cyclic charging characteristic curve (25°C/77°F)



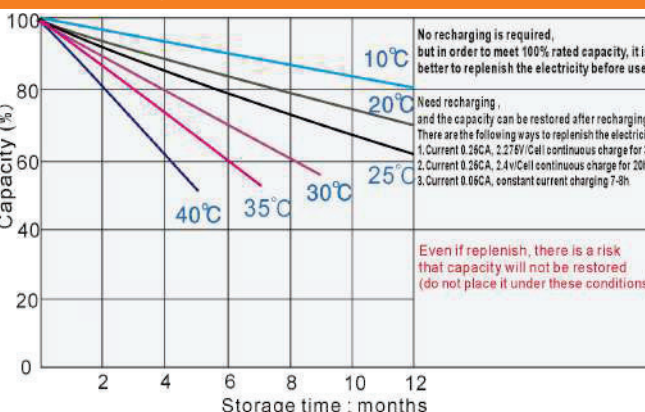
Relationship between temperature and capacity



Relationship between charging voltage and temperature



Self discharge characteristics



Temperature vs Float Life

