

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

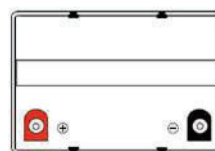
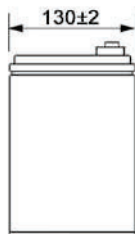
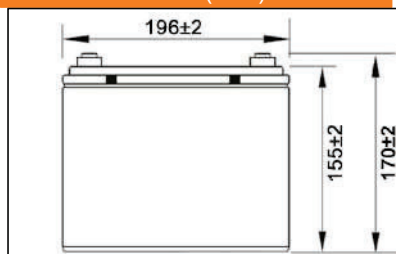
Construction

- * 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

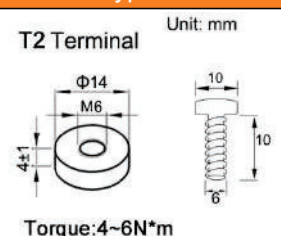
Specification

Battery Model	Nominal Voltage		12V (6 cells per unit)	
	Rated capacity (20 Hour rate)		36Ah	
Dimension	Length	Width	Height	Total Height
	196mm (7.72 inches)	130mm (5.12 inches)	155mm (6.10 inches)	170mm (6.69 inches)
Approx Weight	10.00kg(22.00lbs) ± 3%			
Internal Resistance	Full charged at 25°C(77°F): Approx 7.70mΩ			
Maximum Charge Current	10.8A			
Max. discharge current	540A (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(1.90A,10.5V)	10 hour rate(3.6A,10.5V)	5 hour rate(6.44A,10.5V)	1 hour rate(23.76A,9.6V)
	38.0Ah	36.0Ah	32.2Ah	23.8Ah
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)



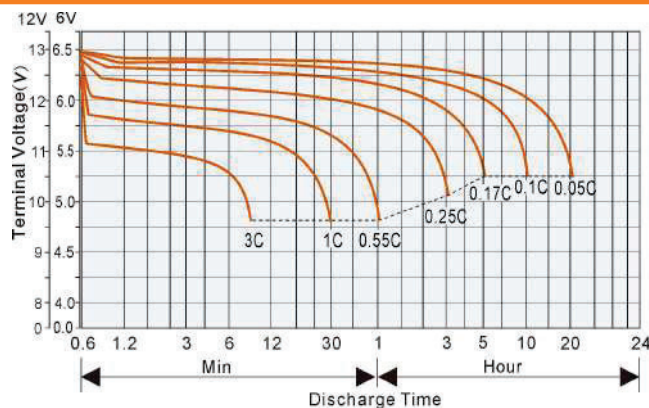
Terminal Type



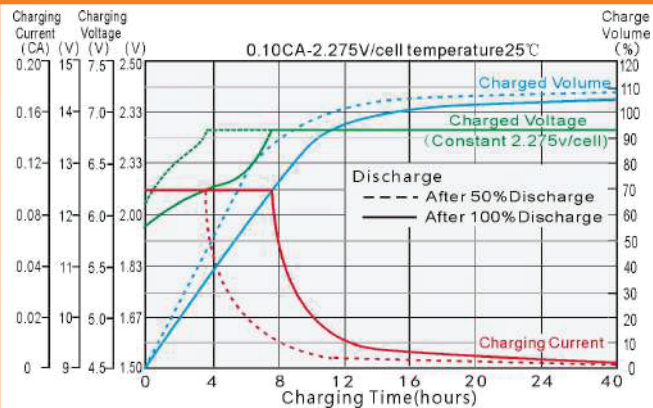
Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25°C(77°F)

F.V/Time		5min	10min	15min	20min	30min	1h	2h	3h	5h	8h	10h	20h
1.85V/cell	A	106	74.5	60.0	48.9	37.0	22.00	12.78	9.24	6.28	4.35	3.50	1.85
	W	198	140.0	115.0	94.5	71.6	42.70	24.89	18.06	12.40	8.65	7.00	3.72
1.80V/cell	A	114	79.9	62.8	50.9	38.2	22.46	13.00	9.37	6.36	4.40	3.55	1.87
	W	212	148.8	119.5	97.5	73.4	43.50	25.21	18.27	12.53	8.72	7.05	3.75
1.75V/cell	A	123	84.7	65.6	52.7	39.2	22.84	13.20	9.50	6.44	4.45	3.60	1.90
	W	227	157.6	123.8	100.3	74.9	44.10	25.52	18.46	12.65	8.76	7.10	3.79
1.70V/cell	A	131	89.6	68.3	54.4	40.1	23.11	13.38	9.62	6.51	4.48	3.62	1.91
	W	240	166.1	128.0	102.9	76.3	44.53	25.82	18.65	12.77	8.80	7.15	3.80
1.67V/cell	A	135	91.5	69.8	55.3	40.6	23.35	13.50	9.72	6.57	4.50	3.63	1.92
	W	246	169.2	130.0	104.2	77.1	44.84	26.03	18.81	12.85	8.83	7.17	3.81
1.60V/cell	A	142	95.0	73.0	57.1	41.6	23.76	13.67	9.85	6.65	4.54	3.65	1.93
	W	258	174.0	135.0	106.9	78.7	45.55	26.32	19.10	12.98	8.92	7.22	3.83

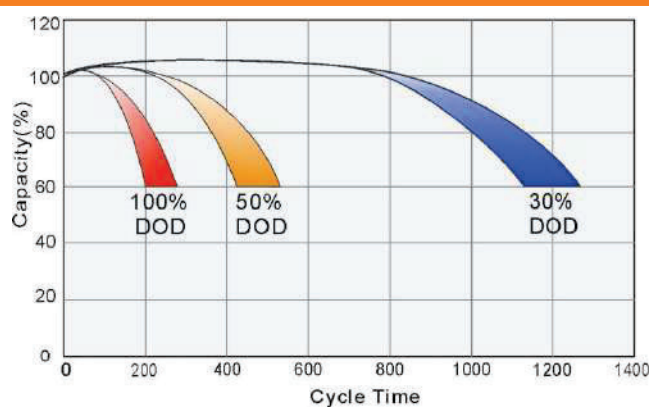
Discharge characteristic curve (25°C/77°F)



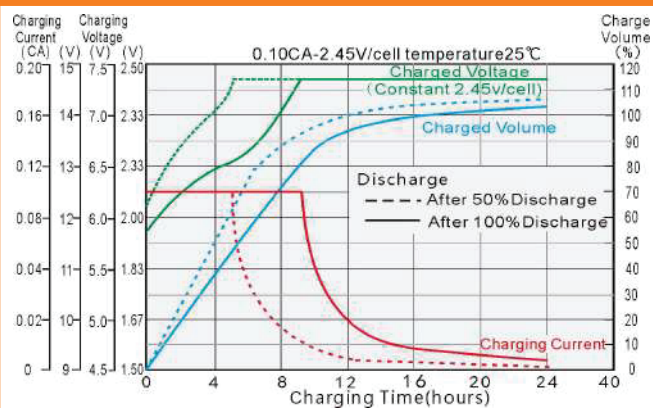
Charging characteristic curve of floating charge (25°C/77°F)



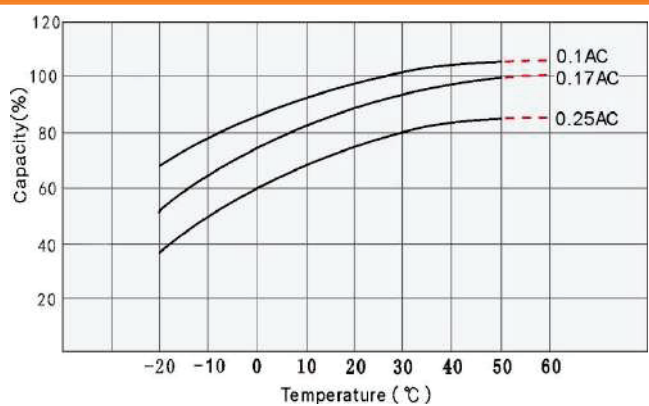
Cycle service life in relation to depth of discharge



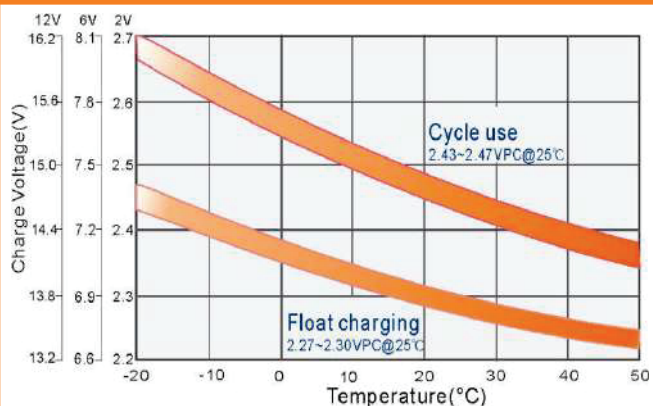
Cyclic charging characteristic curve (25°C/77°F)



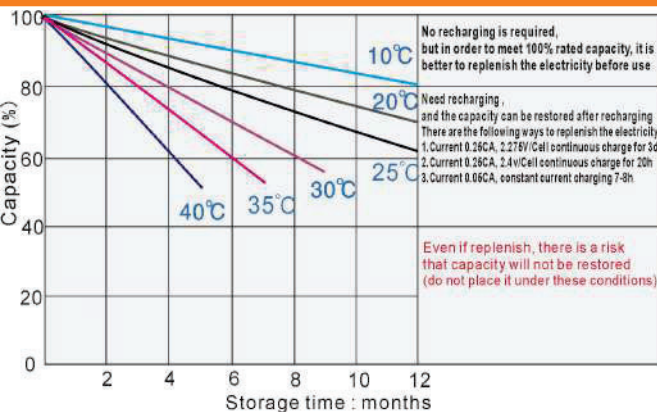
Relationship between temperature and capacity



Relationship between charging voltage and temperature



Self discharge characteristics



Temperature vs Float Life

