

General Series battery

UC Series VRLA batteries are designed with AGM (Absorbent Glass Mat) technology, high performance plates and electrolyte to give extra power output for common power backup system.
GP Series Batteries are the general-purpose batteries with 10 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

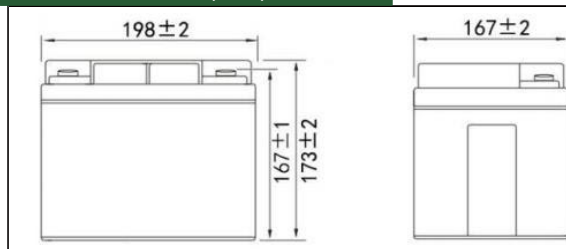
Battery Model	Nominal Voltage		12V (6 cells per unit)	
	Rated capacity (10 Hour rate)		40AH	
Dimension	Length	Width	Height	Total Height
	198mm (7.79 inches)	167mm (6.57 inches)	173mm (6.81 inches)	173mm (6.81 inches)
Aprox. Weight	12kg (26.45lbs) ± 3%			
Internal Resistance	Full charged at 25 (77):Approx 25.1mΩ			
Max. Charge Current	12A			
Max. Discharge current	480 A (5Sec.)			
Short-circuit current	840 A			
Operating Temperature Range	Nominal Operating Temperature	Discharge	Charge	Storage
	25 (77)	-15 ~ 50 (5 ~122)	-15 ~ 40 (5 ~104)	-15 ~ 40 (5 ~104)
Capacity @ 25 (77)	10 hour rate(4A,10.5V)	5 hour rate(7,17A,10.5V)	3 hour rate(10.81A,10.5V)	1 hour rate(27.5A,9.6V)
	40.00Ah	35.85Ah	32.43Ah	27.50Ah
Capacity affected by Temp.(20HR)	40 (104)	25 (77)	0 (32)	-15 (5)
	102%	100%	85%	65%
Charge method	Float Charging Voltage		Equalization Charging Voltage	
	13.5 ~ 13.8 VDC/Unit at 25 (77)		14.4~ 15.0 VDC/Unit at 25 (77)	



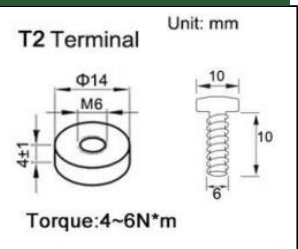
Construction

- * PositiveLead dioxide
- * Electrolyte.....Sulfuric acid
- * Separator.....Fiber glass
- * Container.....ABS(UL94-HB) / Flame Retardant ABS (UL94-V0)
- * Negative.....Lead
- * Safety Valve.....EPDR
- * Terminal.....Copper

Outer Dimension (mm)



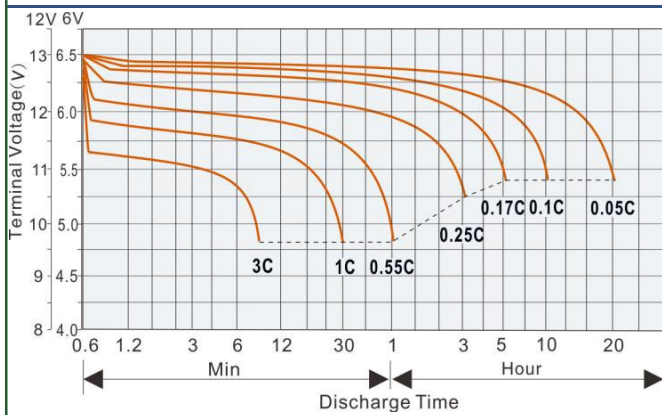
Terminal type



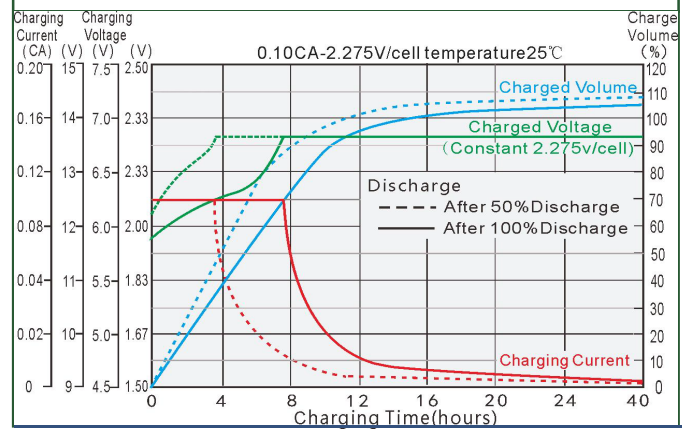
Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25°C(77°F)

F.V/Time		5min	10min	15min	20min	30min	1h	2h	3h	5h	8h	10h	20h
1.85V/cell	A	114	82.9	65.0	54.7	41.5	24.00	14.50	10.30	6.95	4.77	3.92	2.10
	W	213	155.8	122.8	104.0	80.0	46.50	28.26	20.21	13.70	9.46	7.76	4.25
1.80V/cell	A	124	88.3	68.6	57.5	43.1	24.85	14.88	10.49	7.07	4.83	4.00	2.14
	W	229	165.1	128.2	108.6	82.4	47.88	28.95	20.58	13.93	9.57	7.85	4.29
1.75V/cell	A	132	92.9	71.7	59.9	44.5	25.63	15.21	10.66	7.17	4.89	4.04	2.16
	W	244	173.3	132.7	112.1	84.6	49.09	29.55	20.89	14.12	9.66	7.93	4.32
1.70V/cell	A	140	97.3	74.8	61.8	45.9	26.31	15.55	10.81	7.27	4.94	4.06	2.17
	W	257	180.6	137.0	115.1	86.8	50.19	30.11	21.16	14.31	9.75	8.01	4.34
1.67V/cell	A	146	100.9	76.8	63.1	46.8	26.75	15.78	10.94	7.35	4.98	4.08	2.18
	W	264	185.3	140.0	116.9	88.1	50.88	30.45	21.35	14.44	9.82	8.05	4.35
1.60V/cell	A	156	107.3	80.5	65.8	48.3	27.50	16.15	11.15	7.48	5.05	4.10	2.20
	W	279	193.1	146.3	121.1	90.4	52.20	31.06	21.61	14.60	9.92	8.12	4.38

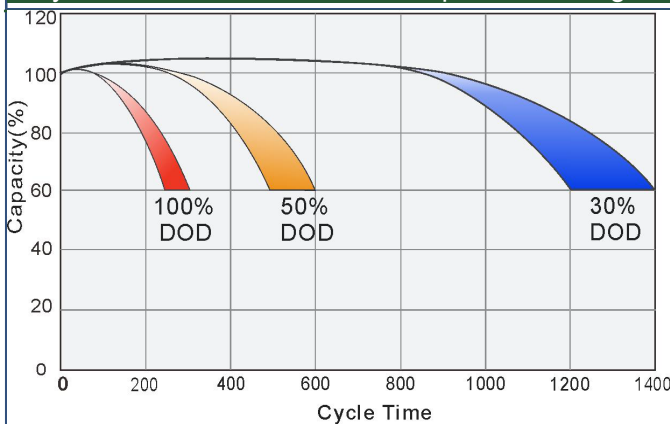
Discharge characteristic curve (25°C/77°F)



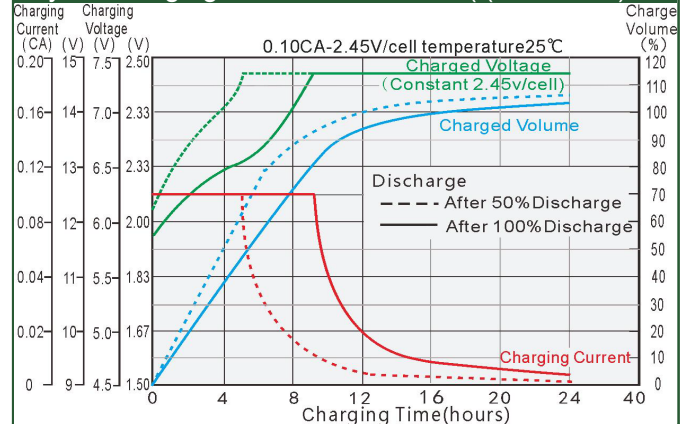
Charging characteristic curve of floating charge (25°C/77°F)



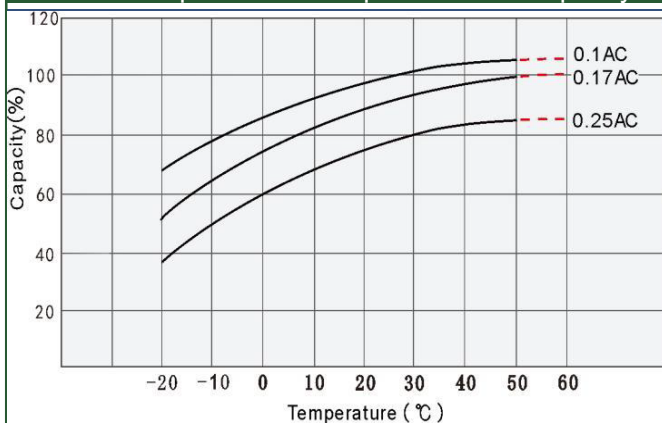
Cycle service life in relation to depth of discharge



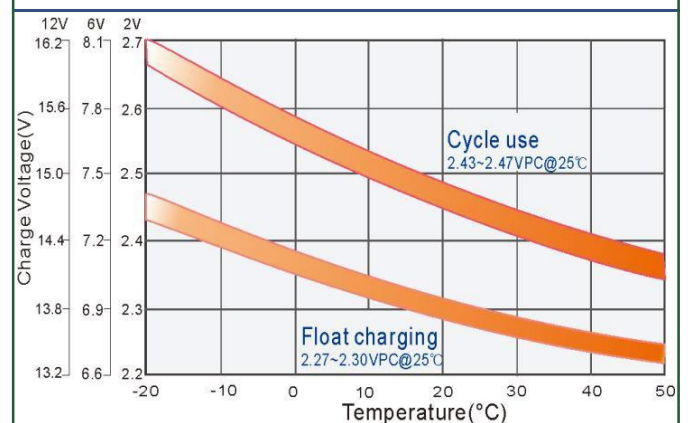
Cyclic charging characteristic curve (25°C/77°F)



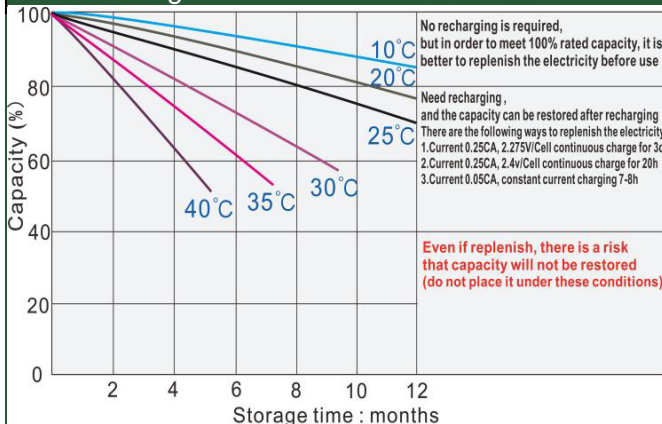
Relationship between temperature and capacity



Relationship between charging voltage and temperature



Self discharge characteristics



Temperature vs Float Life

