

Deep Cycle Series Battery

DC series VRLA batteries are designed with a continuous rolling and stamping grid structure, which can withstand repeated deep cyclic applications.

Deep cycle series Batteries are the special design batteries with 15 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.

- * Generator,Power tools
- * Golf cars and buggies
- * Marine equipment
- * Medical equipment
- * Solar and wind power system



General Features

- * Safety Sealing
- * Non-spillable construction
- * High power density
- * Excellent recovery from Deep discharge
- * Thick plates and high active materials
- * Longer Life and low self-discharge design

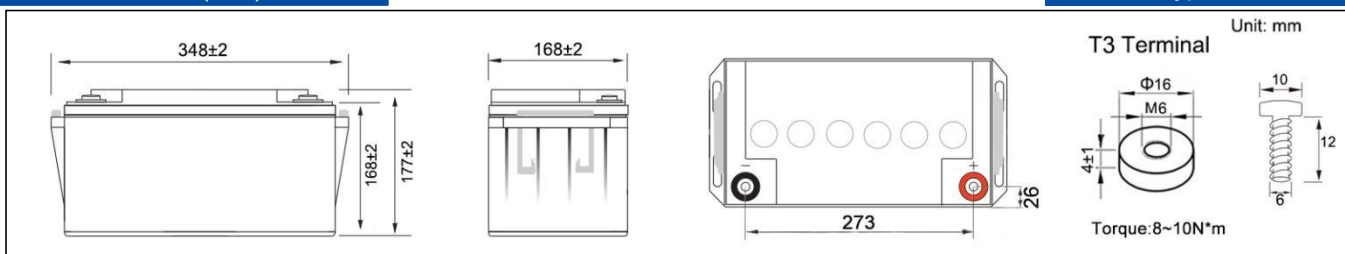
Construction

- * 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)		65Ah	
Dimension	Length	Width	Height	Total Height
	348mm (13.70 inches)	168mm (6.61 inches)	177mm (6.97 inches)	177mm (6.97 inches)
Approx Weight	19.80kg (43.65lbs) ± 3%			
Internal Resistance	Full charged at 25°C(77°F): Approx 5.46mΩ			
Maximum Charge Current	19.5A			
Max.discharge current	650A (5Sec.)			
Short-circuit current	1300A			
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(6.60A, 10.8V)	5 hour rate(11.62A, 10.5V)	3 hour rate(17.89A, 10.2V)	1 hour rate(41.50A, 9.6V)
	66.00Ah	58.10Ah	53.67Ah	41.50Ah
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	
	13.5~13.8 VDC (-3mV/cell/°C)		14.1~14.4 VDC (-4mV/cell/°C)	
			Cycle Use Voltage	
			14.4~15.0 VDC (-5mV/cell/°C)	

Outer dimension (mm)

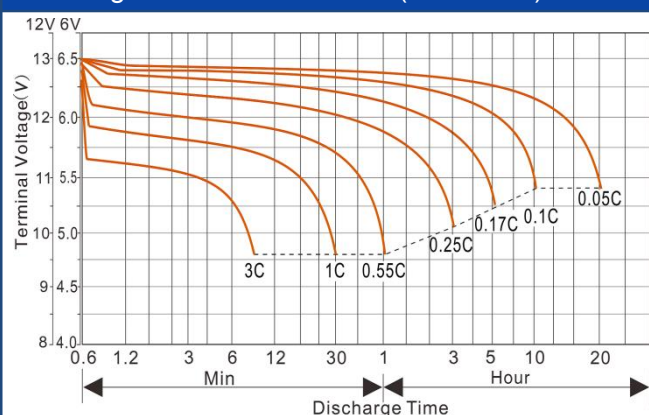


Terminal Type

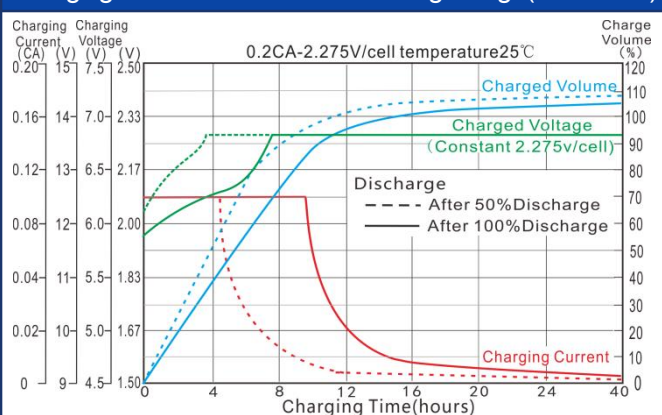
Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25°C (77°F)

F.V/Time		5min	10min	15min	20min	30min	1h	2h	3h	5h	8h	10h	20h
1.85V/cell	A	148	108	91.5	79.5	60.0	38.0	23.50	17.20	11.30	7.80	6.50	3.48
	W	277	206	176	154	117.0	75.1	46.87	34.43	22.71	15.70	13.09	7.02
1.80V/cell	A	167	119	97.9	83.7	62.4	39.00	23.86	17.46	11.47	7.92	6.60	3.53
	W	307	224	187	161	121.0	76.7	47.42	34.86	23.00	15.91	13.27	7.11
1.75V/cell	A	184	128	103.7	87.4	64.6	39.90	24.18	17.69	11.62	8.03	6.68	3.57
	W	333	238	196	167	125.0	78.2	47.91	35.23	23.25	16.11	13.41	7.19
1.70V/cell	A	199	137	109.0	90.8	66.7	40.60	24.46	17.89	11.75	8.12	6.75	3.61
	W	355	252	204	172	128.0	79.2	48.34	35.56	23.47	16.27	13.53	7.26
1.67V/cell	A	206	141	111.5	92.4	67.7	40.90	24.60	17.98	11.80	8.15	6.77	3.62
	W	364	257	208	174	129.0	79.6	48.55	35.70	23.55	16.32	13.57	7.28
1.60V/cell	A	218	147	115.5	95.0	69.5	41.50	24.80	18.10	11.88	8.20	6.80	3.64
	W	381	266	213	178	132.0	80.6	48.87	35.89	23.69	16.40	13.62	7.31

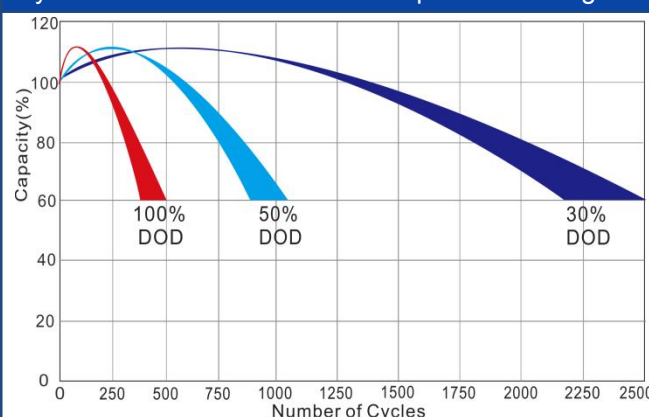
Discharge characteristic curve (25°C/77°F)



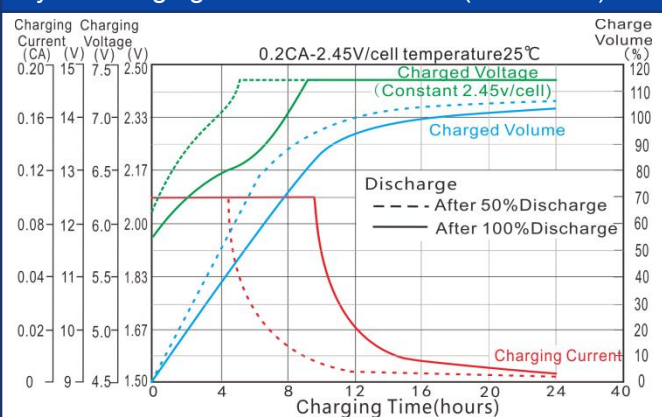
Charging characteristic curve of floating charge (25°C/77°F)



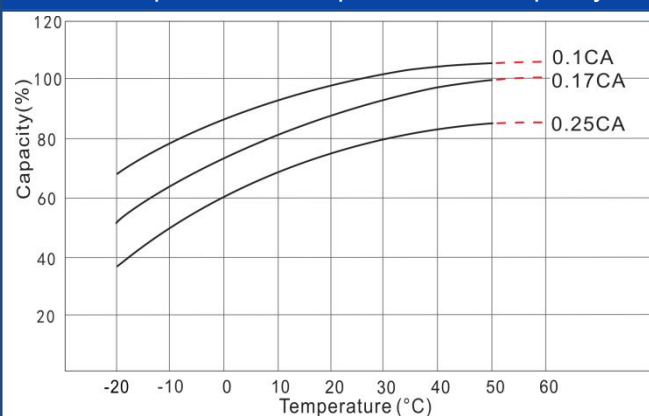
Cycle service life in relation to depth of discharge



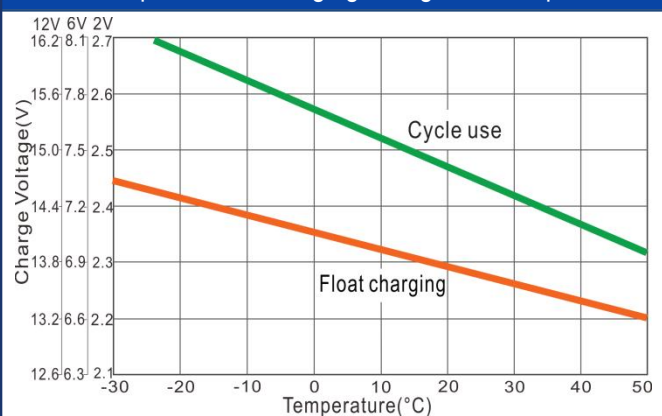
Cyclic charging characteristic curve (25°C/77°F)



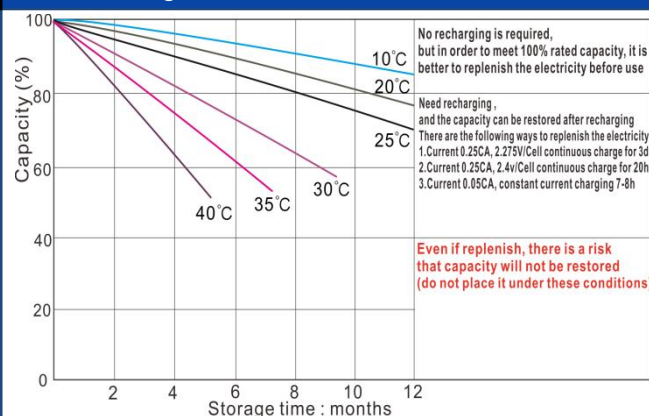
Relationship between temperature and capacity



Relationship between charging voltage and temperature



Self discharge characteristics



Temperature vs Float Life

