

Deep Cycle Series Battery

DC series VRLA batteries are superior deep cycle design with thick plates, high-density active materials And Slightly stronger electrolyte, Which can withstand repeated deep cyclic applications.
Deep cycle series Batteries are the special design batteries with 12 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

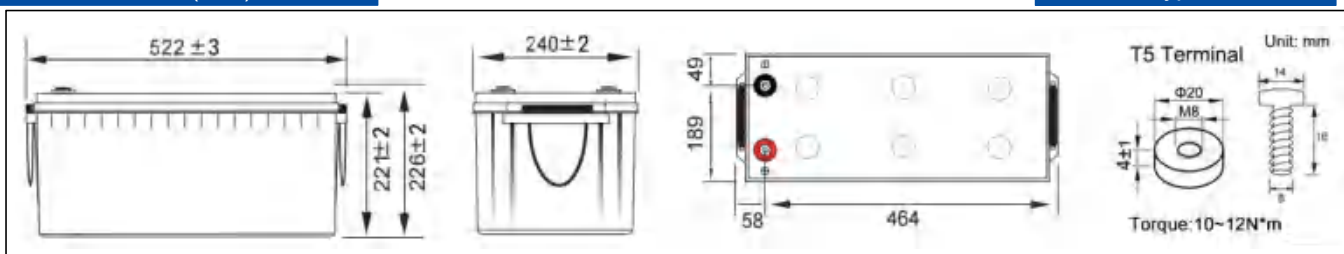
Construction

- * 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)		200Ah	
Dimension	Length	Width	Height	Total Height
	522mm (20.55 inches)	240mm (9.45 inches)	221mm (8.70 inches)	226mm (8.90 inches)
Approx Weight	60.5kg (132.28lbs) ± 3%			
Internal Resistance	Full charged at 25°C(77°F): Approx 2.05mΩ			
Maximum Charge Current	60A			
Max.discharge current	1600A (5Sec.)			
Short-circuit current	3200A			
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(20.1A,10.8V)	5 hour rate(35.8A,10.8V)	3 hour rate(55.7A,10.2V)	1 hour rate(131.1A,9.6V)
	201.0Ah	179.0Ah	167.1Ah	131.1Ah
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)

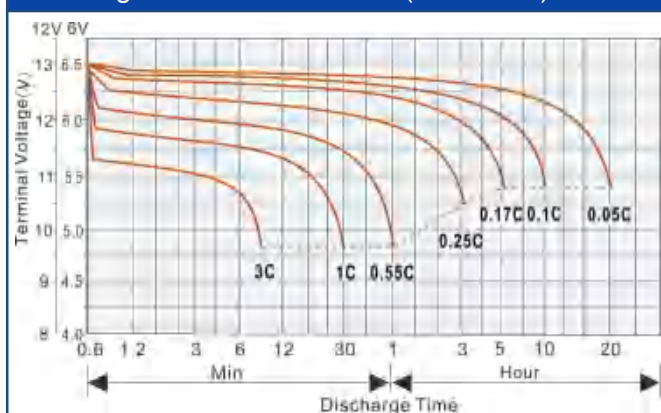


Terminal Type

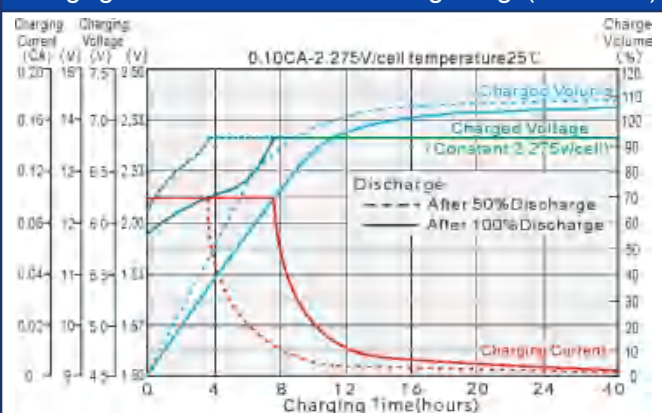
Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25°C(77°F)

F.V/Time		5min	10min	15min	20min	30min	1h	2h	3h	5h	8h	10h	20h
1.85V/cell	A	383	311	262	228	186.2	118.2	70.6	52.8	35.1	24.1	19.8	10.5
	W	720	589	500	438	358.1	228.8	138.6	104.1	69.6	48.0	39.7	20.9
1.80V/cell	A	432	349	290	247	196.7	121.6	73.1	54.2	35.8	24.5	20.1	10.7
	W	798	644	542	468	375.6	234.1	143.2	106.8	70.8	48.8	40.1	21.1
1.75V/cell	A	476	383	315	265	207.5	124.4	74.8	54.9	36.5	24.9	20.3	10.8
	W	862	691	582	496	391.4	238.9	146.2	108.4	72.1	49.5	40.6	21.3
1.70V/cell	A	510	414	335	280	214.9	126.8	76.4	55.7	37.0	25.2	20.5	10.9
	W	914	735	614	522	403.5	243.2	149.0	109.8	73.1	49.9	41.0	21.5
1.67V/cell	A	535	432	350	290	219.7	128.7	77.8	56.4	37.5	25.4	20.7	11.0
	W	950	764	637	535	411.1	245.4	150.8	110.7	74.0	50.1	41.3	21.7
1.60V/cell	A	571	457	372	306	229.5	131.1	79.5	57.4	38.1	25.7	20.9	11.1
	W	1000	805	670	560	428.2	248.5	153.8	112.2	75.0	50.5	41.7	21.9

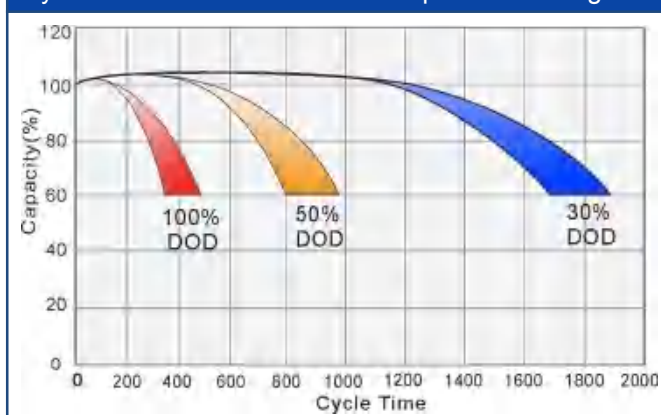
Discharge characteristic curve (25°C/77°F)



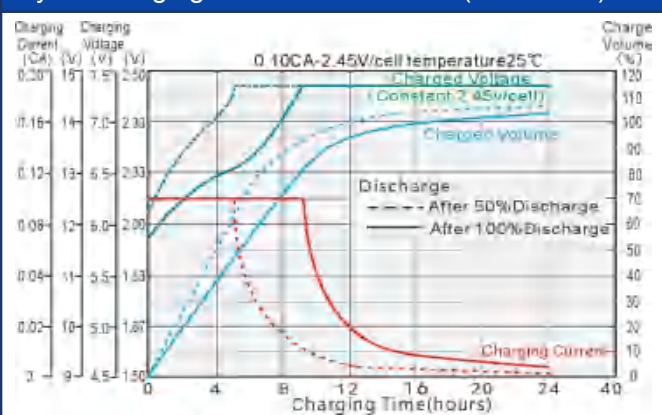
Charging characteristic curve of floating charge (25°C/77°F)



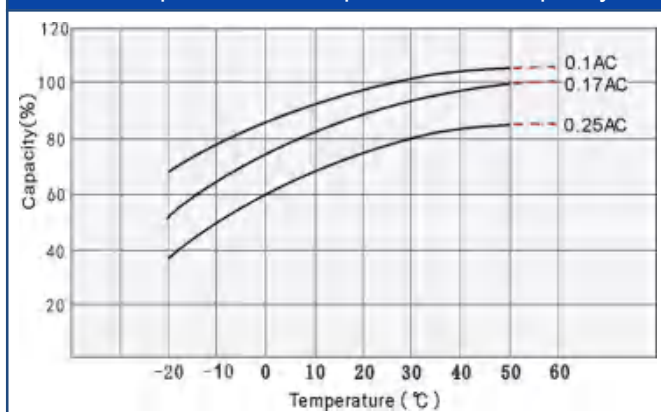
Cycle service life in relation to depth of discharge



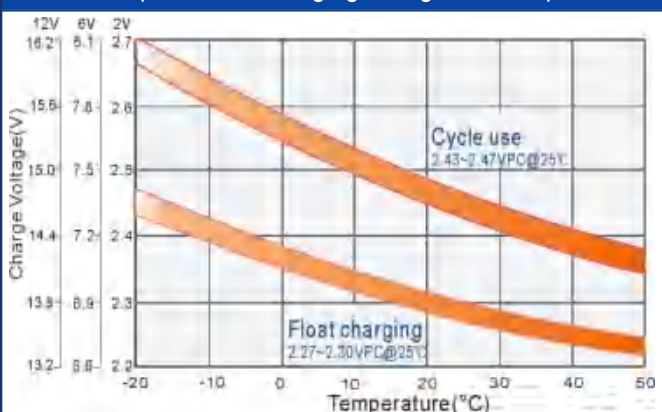
Cyclic charging characteristic curve (25°C/77°F)



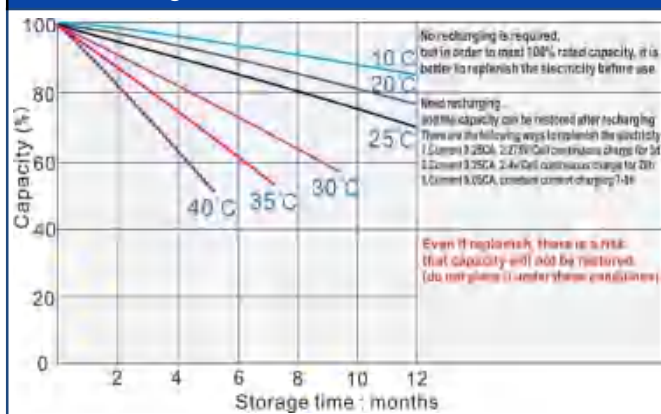
Relationship between temperature and capacity



Relationship between charging voltage and temperature



Self discharge characteristics



Temperature vs Float Life

