

ATN12200[12V200AH/10HR]

ATN General (GP) 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 5 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 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

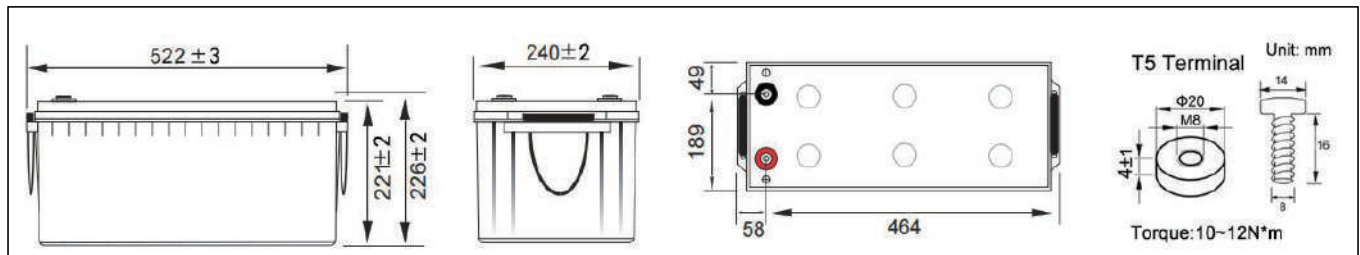
Construction

- * 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)		200Ah	
Dimension	Length	Width	Height	Total Height
	522mm (20.55 inches)	240mm (9.45 inches)	221mm (8.70 inches)	226mm (8.89 inches)
Approx Weight	55.2kg(121.70lbs) ± 3%			
Internal Resistance	Full charged at 25°C(77°F): Approx. 2.60mΩ			
Maximum Charge Current	60A			
Max.discharge current	1600A (5Sec.)			
Short-circuit current	2560A			
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(20.2A,10.8V)	5 hour rate(35.5A,10.8V)	3 hour rate(54.2A,10.2V)	1 hour rate(128A,9.6V)
	200Ah	177.5Ah	162.6Ah	128.0Ah
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)

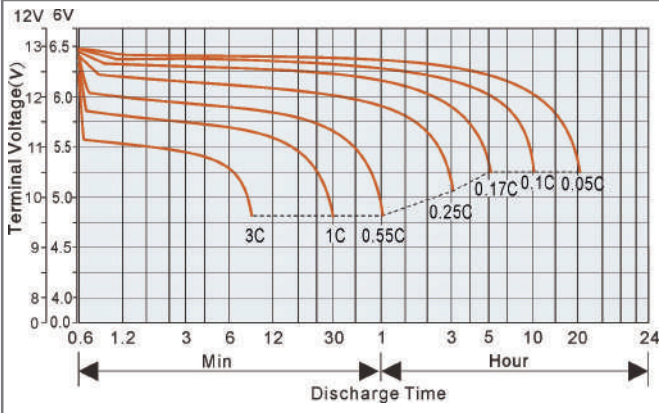


Terminal Type

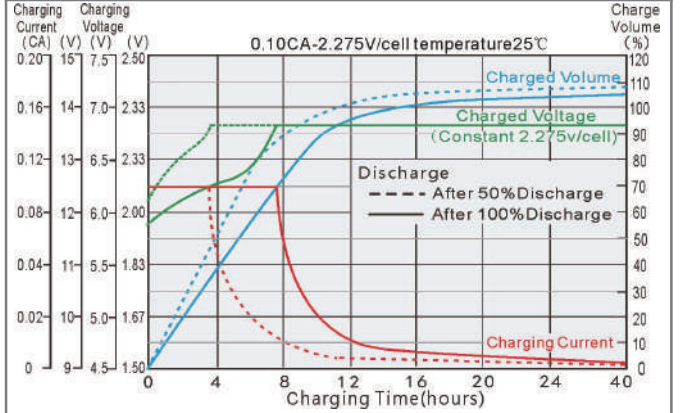
Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25°C(77°F)

F.V/Time	5min	10min	15min	20min	30min	1h	2h	3h	5h	8h	10h	20h	
1.85V/cell	A	367	303	260	226	183.0	113.0	68.9	51.5	34.8	23.9	19.7	10.4
	W	690	573	495	432	350.0	221.0	135.5	101.6	68.9	47.5	39.4	21.1
1.80V/cell	A	410	340	286	245	193.0	116.4	70.7	52.5	35.5	24.2	20.0	10.5
	W	760	628	530	461	364.0	226.3	138.6	103.1	70.0	47.9	39.9	21.2
1.75V/cell	A	455	372	310	261	201.0	119.5	72.5	53.4	36.1	24.5	20.2	10.6
	W	833	680	567	486	378.0	231.0	141.4	104.6	70.8	48.4	40.3	21.3
1.70V/cell	A	491	398	329	274	207.5	122.5	74.0	54.2	36.7	24.8	20.3	10.7
	W	890	722	595	504	391.0	235.5	143.6	106.0	71.8	48.7	40.5	21.4
1.67V/cell	A	515	416	340	282	212.5	124.7	75.2	54.9	37.0	25.0	20.4	10.8
	W	922	745	615	518	399.0	238.5	145.5	106.9	72.2	49.0	40.6	21.5
1.60V/cell	A	555	446	363	293	220.0	128.0	77.0	56.0	37.7	25.3	20.6	10.9
	W	980	790	652	538	412.0	244.0	148.7	108.6	73.5	49.5	40.8	21.6

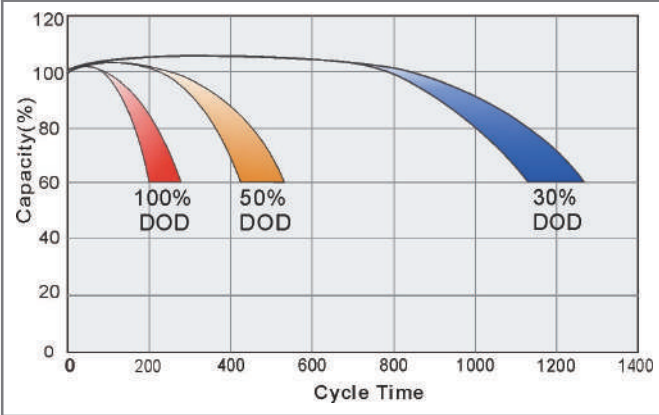
Discharge characteristic curve (25°C/77°F)



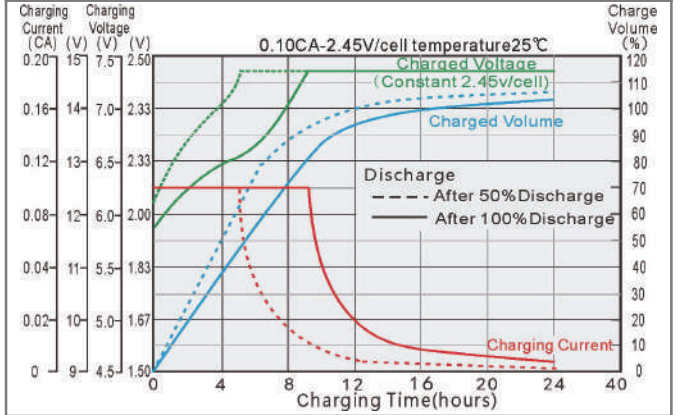
Charging characteristic curve of floating charge (25°C/77°F)



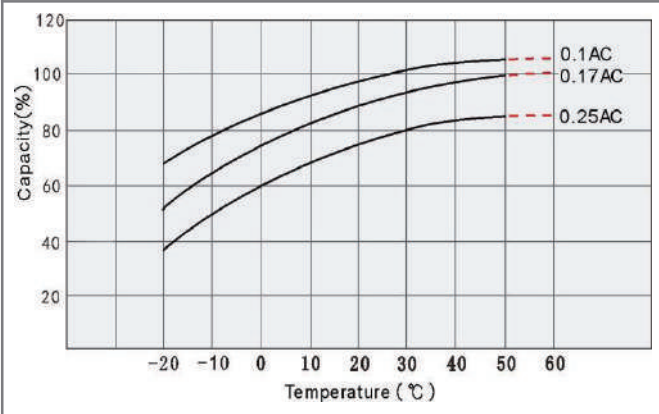
Cycle service life in relation to depth of discharge



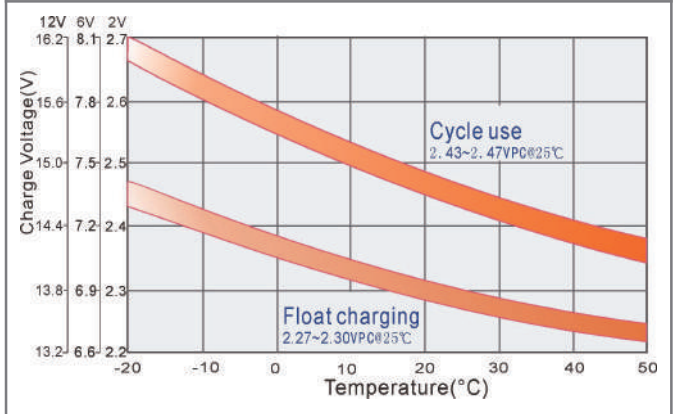
Cyclic charging characteristic curve (25°C/77°F)



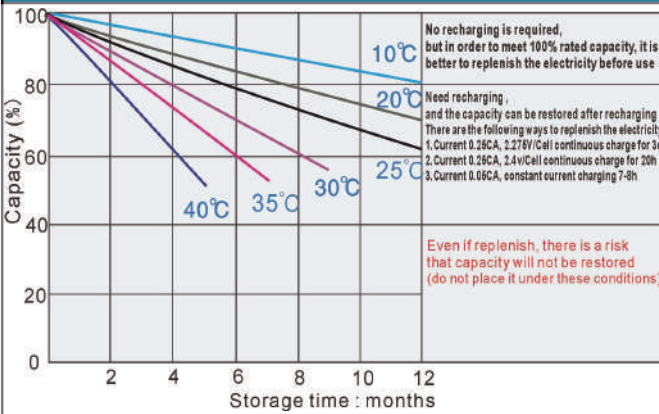
Relationship between temperature and capacity



Relationship between charging voltage and temperature



Self discharge characteristics



Temperature vs Float Life

