

ATN1218[12V18AH/20HR]

ATENCO POWER TECH CO. LTD

ATN General 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.

• General Features

- Heavy Duty Grid
- * Mechanized assembly
- Non-spillable construction
- High Reliability and Stability
- Sealed and Maintenance-free
- * Long Life

Specific

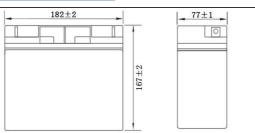
- * Power tools
- * Marine équipment
- * Medical equipment
- * Fire and Security System

Construction

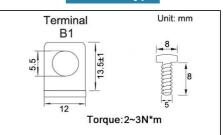
- * Positive ··· ·· Lead dioxide
- * Safety Valve ···· EPDR * Terminal ····· Copper

Battery Model	inominai v	oltage	12V (6 cells per unit)					
	Rated capacity (2	20 Hour rate)	18Ah					
Dimonsion	Length	Width	Height	Total Height				
Dimension	181mm (7.13 inches)	77mm (3.03 inches)	167mm (6.57 inches)	167mm (6.57 inches)				
Approx Weight	5.04kg(11.11 lbs) ± 3%							
Internal Resistance	Full charged at 25°C(77°F):Approx 12.5mΩ							
Maximum Charge Current	5.4A							
Max.discharge current	270A (5Sec.)							
Operating Temperature	Nominal Operating Temperature	Discharge	Charge	Storage				
Range	25℃(77 ℉)	-15℃~50℃(5°F~122°F)	-15℃~40℃(5° F ~104 °F)	-15℃~ 40℃(5°F~104°F)				
Capacity @ 25°C	20 hour rate(0.92A,10.5V)	10 hour rate(1.68A,10.5V)	5 hour rate(3.11A,10.5V)	1 hour rate(12.0A,9.6V)				
(77°F)	18.4Ah	16.8Ah	15.55Ah	12.0Ah				
Capacity affected by	40 ℃ (104°F)	25 ℃ (77°F)	0℃ (32°F)	-15 ℃ (5°F)				
Temp.(20HR)	102%	100%	85%	65%				
Charge method	Float Chargin	g Voltage	Equalization Charging Voltage					
Charge method	13.5 ~ 13.8 VDC/Un	it at 25℃(77℉)	14.4~ 15.0 VDC/Unit at 25℃(77°F)					

Outer dimension (mm)



Terminal Type



Constant Current(Amp) and Constant Power(Watt) Discharge Table at $25^{\circ}C(77^{\circ}F)$						(/°F)							
F.V/Tim	e	5min	10min	15min	20min	30min	1h	2h	3h	5h	8h	10h	20h
1.85V/cell	А	51	35.0	27.1	22.3	17.5	10.8	6.41	4.62	2.99	2.05	1.64	0.90
	W	96	67.0	52.0	43.0	33.8	21.1	12.61	9.11	5.92	4.11	3.32	1.84
1.80V/cell	А	55	37.9	28.6	23.5	18.3	11.1	6.56	4.74	3.05	2.09	1.66	0.91
1.00V/Cell	W	104	72.1	54.6	45.2	35.3	21.6	12.81	9.27	6.03	4.18	3.35	1.86
1.75V/cell	А	59	40.2	30.2	24.6	19.0	11.3	6.70	4.84	3.11	2.12	1.68	0.92
	W	111	75.6	57.5	47.4	36.6	21.9	12.99	9.42	6.14	4.24	3.38	1.87
1.70V/cell	А	63	42.2	31.6	25.8	19.7	11.5	6.82	4.92	3.17	2.16	1.69	0.93
1.70V/Cell	W	118	79.0	60.2	49.5	37.6	22.2	13.18	9.55	6.25	4.29	3.40	1.88
1.67V/cell	А	66	43.1	32.8	26.5	20.0	11.7	6.89	4.97	3.20	2.18	1.70	0.94
1.67 V/Cell	W	123	80.5	62.0	50.2	38.1	22.6	13.31	9.62	6.30	4.32	3.43	1.89
1.60\//00	А	70	45.0	34.5	27.4	20.5	12.0	7.01	5.05	3.26	2.21	1.74	0.95
1.60V/cell	W	130	84.0	65.0	51.8	39.0	23.1	13.52	9.75	6.41	4.37	3.47	1.91

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+ AF0A(770F)





- * Electrolyte ···· Sulfuric acid * Separator ···· Fiber glass
- * Negative · · · · · Lead

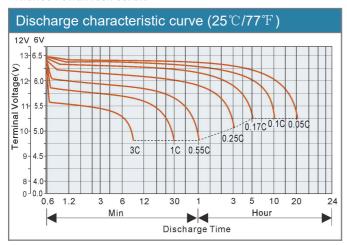
 - * Container ··· ·· ABS(UI 94-HB)/Flame Retardant ABS (UI 94-V0)

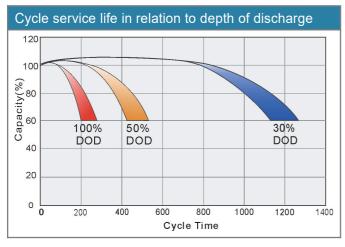
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cation								
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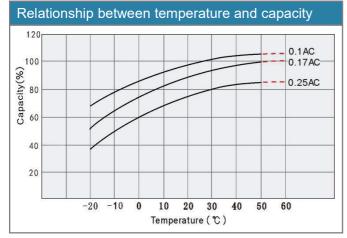
* Alarm system

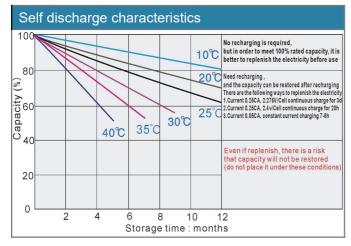
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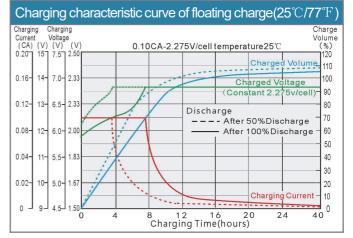
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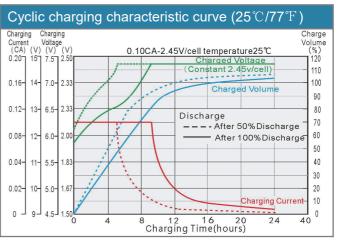












Relationship between charging voltage and temperature

