

OB18AH-12



OVRGeneral 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

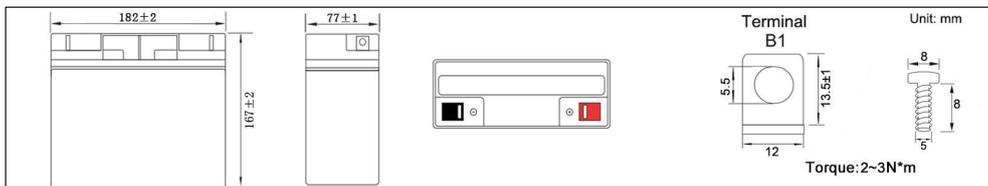
Construction

- * 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 (20 Hour rate)		18Ah	
Dimension	Length	Width	Height	Total Height
	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 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)	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)
	18.4Ah	16.8Ah	15.55Ah	12.0Ah
Capacity affected by Temp.(20HR)	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)



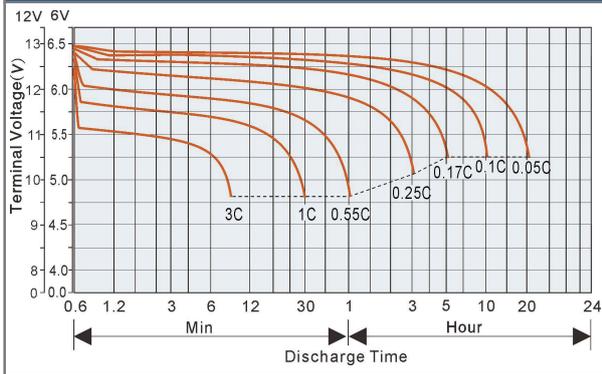
Terminal Type

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

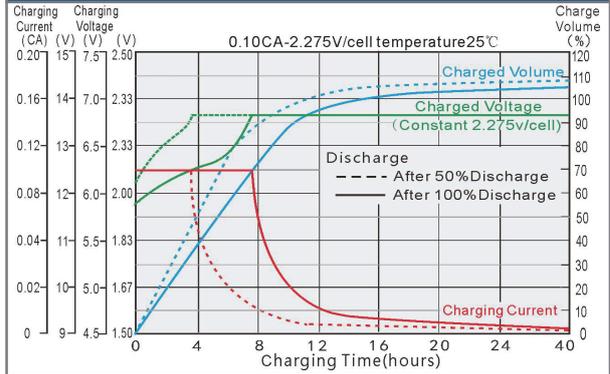
F.V/Time		5min	10min	15min	20min	30min	1h	2h	3h	5h	8h	10h	20h
1.85V/cell	A	51	35.0	27.1	22.3	17.5	10.8	6.41	4.62	2.99	2.05	1.64	0.90
	W	96	67.0	52.0	43.0	33.8	21.1	12.61	9.11	5.92	4.11	3.32	1.84
1.80V/cell	A	55	37.9	28.6	23.5	18.3	11.1	6.56	4.74	3.05	2.09	1.66	0.91
	W	104	72.1	54.6	45.2	35.3	21.6	12.81	9.27	6.03	4.18	3.35	1.86
1.75V/cell	A	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	A	63	42.2	31.6	25.8	19.7	11.5	6.82	4.92	3.17	2.16	1.69	0.93
	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	A	66	43.1	32.8	26.5	20.0	11.7	6.89	4.97	3.20	2.18	1.70	0.94
	W	123	80.5	62.0	50.2	38.1	22.6	13.31	9.62	6.30	4.32	3.43	1.89
1.60V/cell	A	70	45.0	34.5	27.4	20.5	12.0	7.01	5.05	3.26	2.21	1.74	0.95
	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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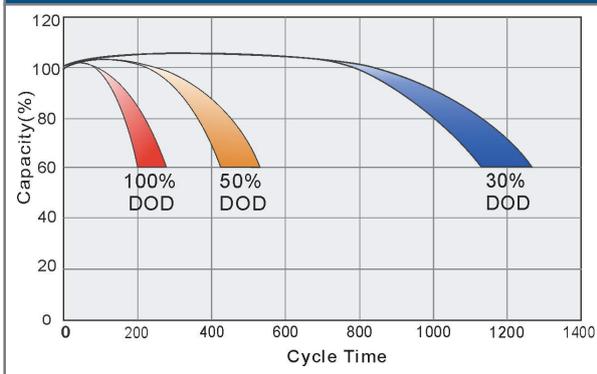
Discharge characteristic curve (25°C/77°F)



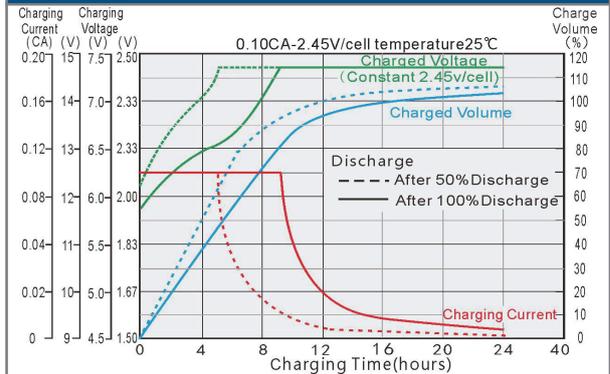
Charging characteristic curve of floating charge (25°C/77°F)



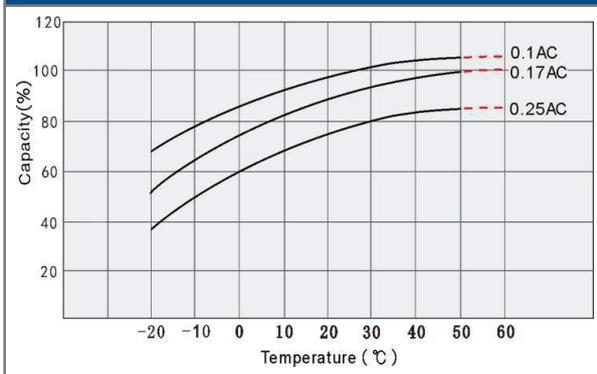
Cycle service life in relation to depth of discharge



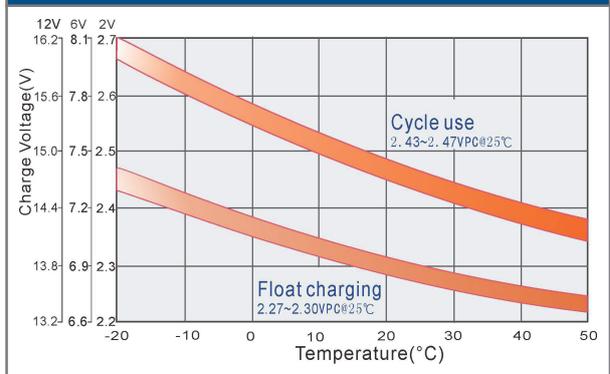
Cyclic charging characteristic curve (25°C/77°F)



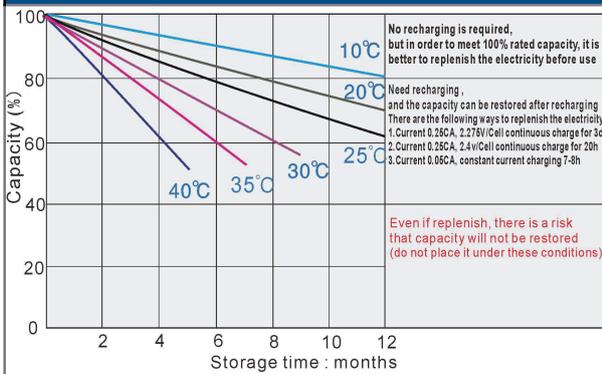
Relationship between temperature and capacity



Relationship between charging voltage and temperature



Self discharge characteristics



Temperature vs Float Life

