

# OB100AH-12



OVR 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.
- \* 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

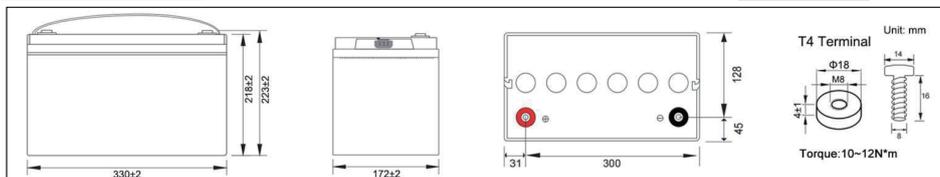
### Construction

- \* 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)		100Ah	
Dimension	Length	Width	Height	Total Height
	330mm (12.99 inches)	172mm (6.77 inches)	218mm (8.58 inches)	223mm (8.78 inches)
Approx Weight	27.9kg(61.50lbs) ± 3%			
Internal Resistance	Full charged at 25°C (77°F): Approx 3.80mΩ			
Maximum Charge Current	30A			
Max. discharge current	1000A (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)	10 hour rate (10.09A, 10.5V)	5 hour rate (17.55A, 10.5V)	3 hour rate (25.8A, 10.2V)	1 hour rate (61A, 9.6V)
	100.9Ah	87.75Ah	77.4Ah	61.0Ah
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)



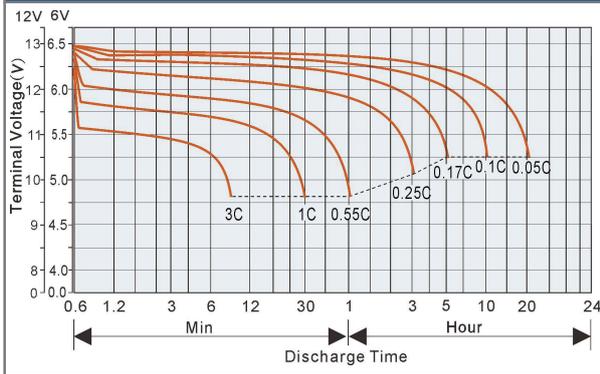
### Terminal Type

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

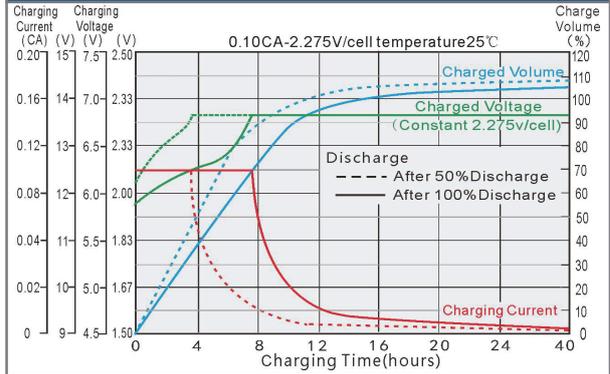
F.V/Time	5min	10min	15min	20min	30min	1h	2h	3h	5h	8h	10h	20h
1.85V/cell	A	250	178	149.0	128.0	92.5	56.0	34.50	24.50	17.00	11.50	5.30
	W	475	339	285.0	246.0	179.0	109.0	67.63	48.21	33.67	22.92	10.77
1.80V/cell	A	266	196	158.0	133.5	95.3	57.1	35.20	25.00	17.27	11.68	5.35
	W	500	371	299.0	255.0	184.0	110.4	68.64	48.97	34.13	23.14	10.81
1.75V/cell	A	292	212	168.0	139.0	98.0	58.3	35.80	25.40	17.55	11.86	5.40
	W	543	398	315.0	264.0	187.0	111.9	69.61	49.46	34.61	23.40	10.87
1.70V/cell	A	319	228	177.5	144.5	100.8	59.4	36.60	25.80	17.82	12.03	5.45
	W	581	425	333.0	272.0	191.0	112.9	70.96	50.10	35.07	23.67	10.94
1.67V/cell	A	332	236	182.0	147.0	102.2	59.9	36.90	26.00	17.95	12.11	5.47
	W	602	434	339.0	276.0	193.0	113.8	71.03	50.35	35.17	23.82	10.96
1.60V/cell	A	360	253	193.0	153.0	105.0	61.0	37.40	26.40	18.20	12.25	5.50
	W	649	460	357.0	286.0	197.0	115.8	71.51	50.85	35.44	24.02	10.99

# OB100AH-12

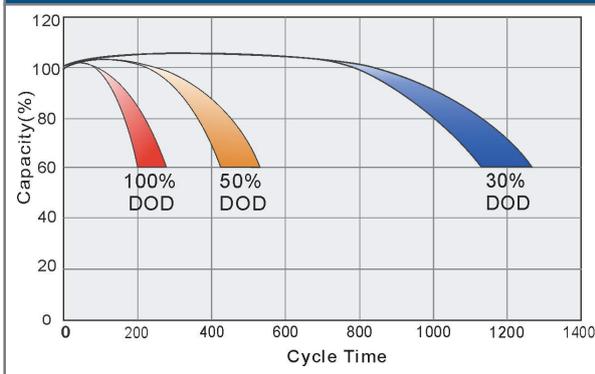
Discharge characteristic curve (25°C/77°F)



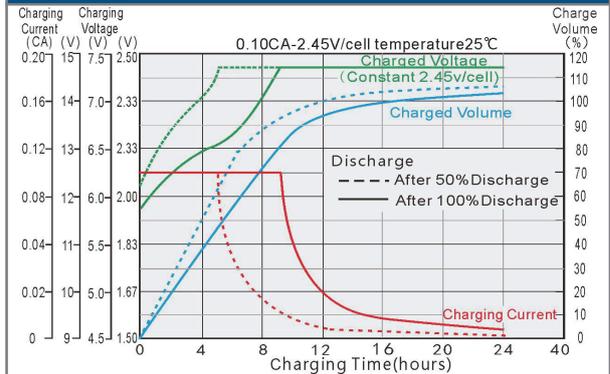
Charging characteristic curve of floating charge (25°C/77°F)



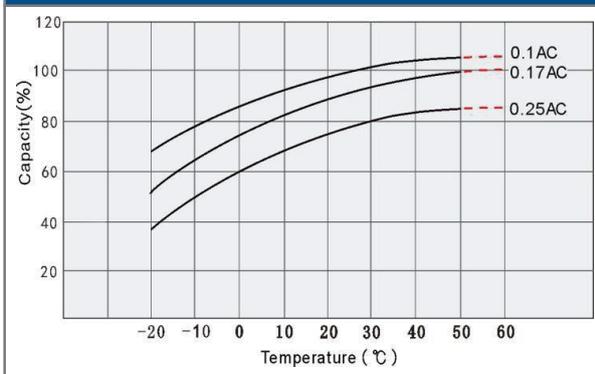
Cycle service life in relation to depth of discharge



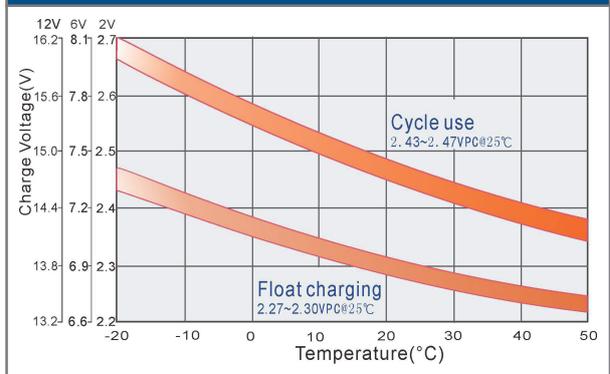
Cyclic charging characteristic curve (25°C/77°F)



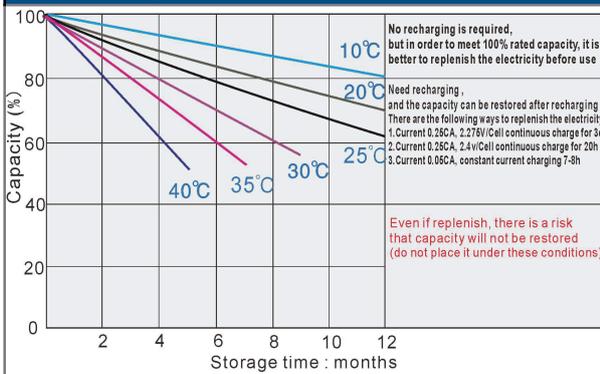
Relationship between temperature and capacity



Relationship between charging voltage and temperature



Self discharge characteristics



Temperature vs Float Life

