



VRLA Battery

NP 100-12

12V100AH

VRLA Battery

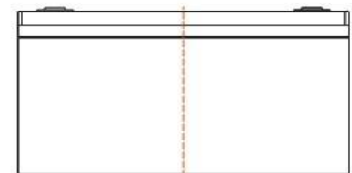
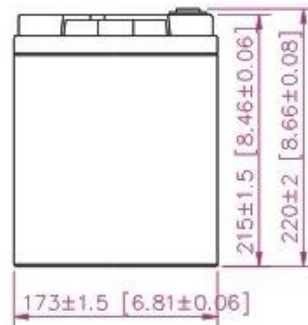
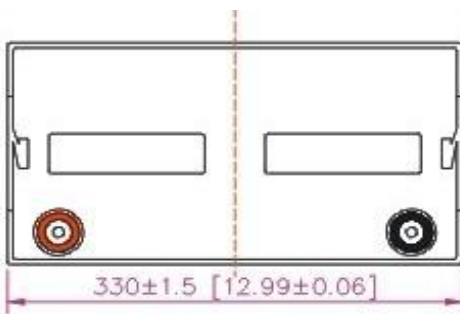
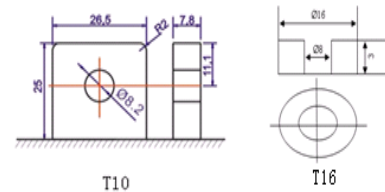
- completely sealed and maintenance-free, low self-discharge
- 100% precise quality testing, stable quality and high reliable performance
- Unique grid alloy formula and updated manufacturing technique
- Floating & standby use: up to 5 years
- Cycle use 1: More than 280 cycles at 100% DOD
- Cycle use 2: More than 1400 cycles at 30% DOD

Application:

- Telecommunications
- UPS/EPS
- DC Power Supply
- Solar system
- Wind Power System
- Auto Control System

Construction:

- ComponentRaw material
- PositiveLead dioxide
- NegativeLead
- ContainerABS
- CoverABS
- SealantEpoxy
- Safety valveRubber
- TerminalCopper/Pb
- SeparatorFiber glass
- ElectrolyteSulfuric acid

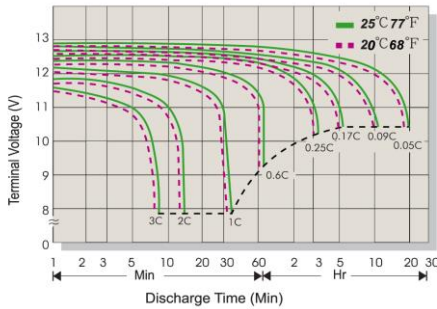


Speification:

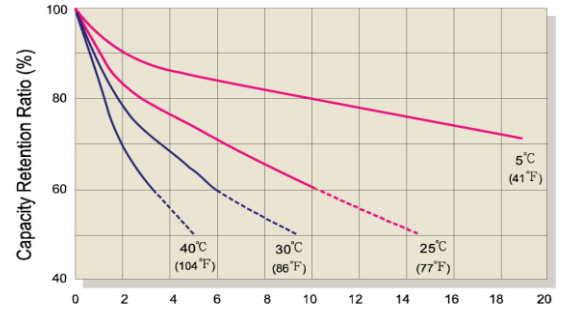
Battery Model	NP 100-12 12V100AH			
Designer Floating Life	Up to 5 Years			
Capacity (25°C)	10HR(10.0A,10.80V)	3HR(25.0A,10.2V)	1HR(55A,9.6V)	0.25HR(170A,9.6V)
	100AH	75.0AH	55AH	42.5AH
Dimensions	Length	Width	Height	Total Height
	330mm (12.99inch)	173mm 6.81inch)	215mm (8.46inch)	220mm (8.66inch)
Approx. Weight	28.0Kg			
Internal Resistance	Full charged at 25°C: ≤6.5mΩ			
Self Discharge	2% of capacity declined per month at (25°C)			
Capacity Affected by Temp.(10HR)	40°C	25°C	0°C	-15°C
	102%	100%	80%	55%
Charge Voltage(25°C)	Cycle use		Float use	
	14.4-15.0V (-18mV/°C), max. Current: 30.0A		13.5-13.8V (-18mV/°C)	



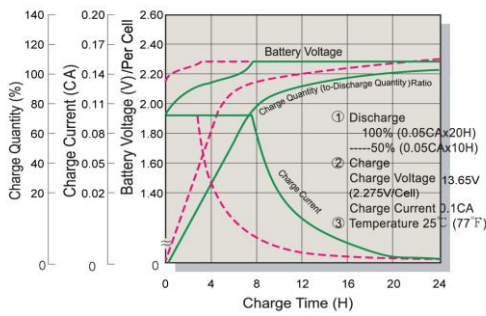
Terminal Voltage (V) and Discharge Time



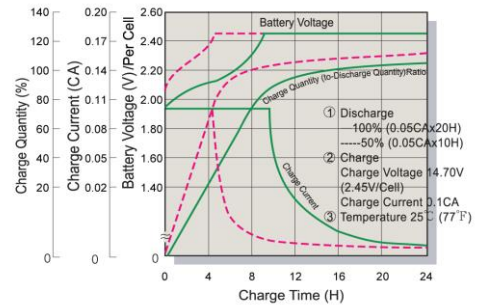
Capacity Retention Characteristic



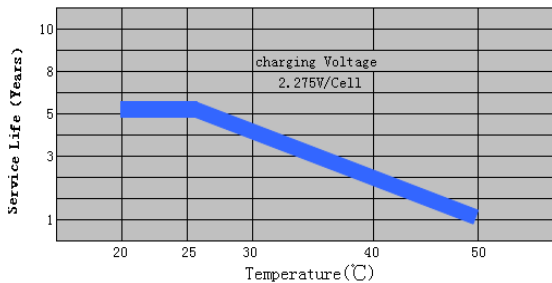
Battery Voltage and Charge Time for Standby Use



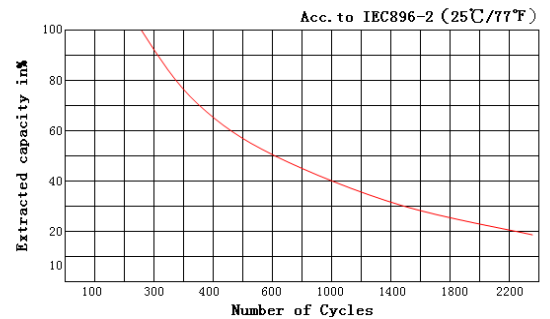
Battery Voltage and Charge Time for Cycle Use



Tickle(or Float) Service Life



Cycle Service Life



Constant Current Discharge(CC,Unit:A) at 25°C(77°F)

F.V/Time	5Min	10Min	15Min	30Min	1Hr	2Hr	3Hr	4Hr	5Hr	8Hr	10Hr	20Hr
1.80V/Cell	259.0	205.0	161.0	105.0	52.0	34.50	24.89	20.80	16.30	11.92	10.0	5.00
1.75V/Cell	266.0	224.0	164.0	108.0	53.0	36.80	24.90	21.30	16.60	12.12	10.10	5.20
1.70V/Cell	284.0	230.0	166.0	110.0	54.0	37.10	25.00	21.30	16.60	12.20	10.20	5.30
1.60V/Cell	318.0	242.0	170.0	114.0	55.0	37.60	27.10	21.80	17.10	12.42	10.40	5.50

Constant Power Discharge (CP,Unit:W) at 25°C(77°F)

F.V/Time	5Min	10Min	15Min	30Min	1Hr	2Hr	3Hr	4Hr	5Hr	8Hr	10Hr	20Hr
1.80V/Cell	492.1	389.5	311.6	199.5	110.2	65.6	48.1	39.5	31.0	22.6	19.0	9.5
1.75V/Cell	505.4	425.6	324.9	205.2	112.1	69.9	50.0	40.5	31.5	23.0	19.2	9.9
1.70V/Cell	539.6	437.0	334.4	209.0	114.0	70.5	50.0	40.5	31.5	23.2	19.4	10.1
1.60V/Cell	604.2	459.8	347.7	216.6	117.8	71.4	51.5	41.4	32.5	23.6	19.8	10.5