



VRLA Battery

NP 12-12

12V12AH

VRLA Battery

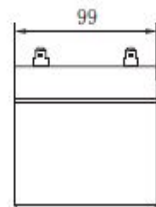
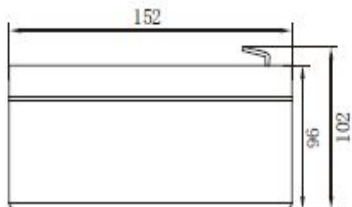
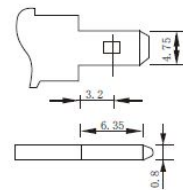
- completely sealed and maintenance-free, low self-discharge
- 100% precise quality testing, stable quality and high reliable performance
- Unique grid alloy formula and updated manufacturing technique
- Floating & standby use: up to 5 years
- Cycle use 1: More than 300 cycles at 80% DOD

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
- SeparatorFiber glass
- ElectrolyteSulfuric acid

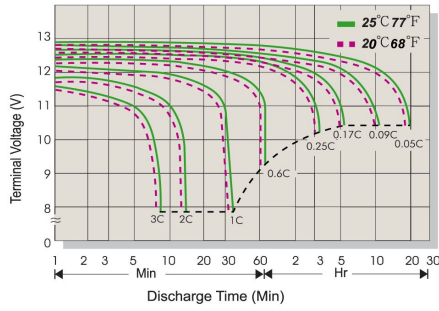


Specification:

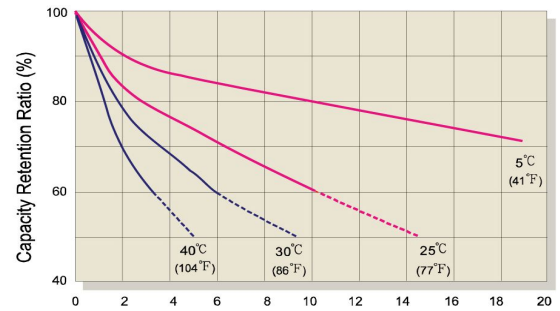
Battery Model	NP 12-12 12V12AH			
Designer Floating Life	Up to 5 Years			
Capacity (25°C)	20HR(0.65A,10.50V)	10HR(1.2A,10.50V)	5HR(2.04A,10.5V)	1HR(6.6A,10.5V)
	13AH	12AH	10.2AH	6.6AH
Dimensions	Length	Width	Height	Total Height
	152mm (5.99inch)	99mm (3.9inch)	96mm (3.78inch)	102mm (4.02inch)
Approx. Weight	3.2Kg (7.27 lbs)			
Internal Resistance	Full charged at 25°C: ≤17mΩ			
Self Discharge	2% of capacity declined per month at (25°C)			
Capacity Affected by Temp.(20HR)	40°C	25°C	0°C	-15°C
	102%	100%	88%	78%
Charge Voltage(25oC)	Cycle use		Float use	
	14.4-14.6V(-30mV/°C), max. Current: 3.6A		13.6-13.8V (-20mV/°C)	



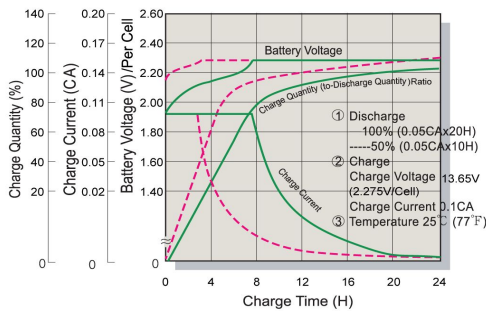
Terminal Voltage (V) and Discharge Time



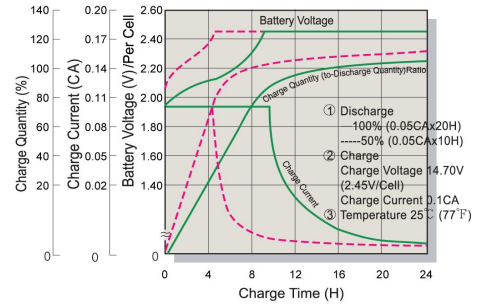
Capacity Retention Characteristic



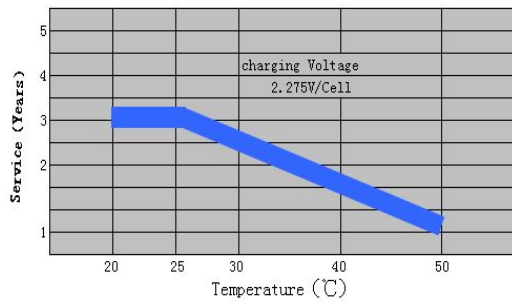
Battery Voltage and Charge Time for Standby



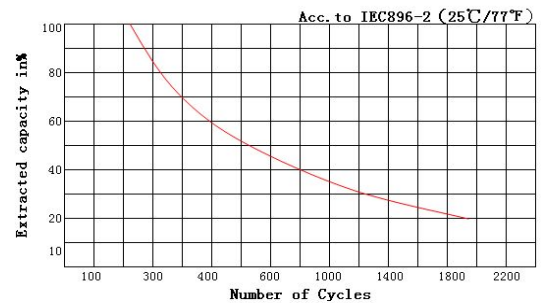
Battery Voltage and Charge Time for Cycle Use



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
9.6V	43.2	28.3	21.0	13.8	8.4	4.2	3.098	2.48	2.11	1.39	1.13	0.62
10.2V	39.6	27.1	19.3	11.7	7.9	4.03	3.00	2.40	2.06	1.37	1.12	0.61
10.5V	36.1	25.3	18.0	10.8	6.9	3.95	2.95	2.28	2.04	1.35	1.10	0.60
10.8V	34.6	24.2	16.8	9.82	6.5	3.85	2.90	2.24	1.95	1.31	1.07	0.59
11.1V	32.0	22.8	15.6	8.70	6.3	3.75	2.75	2.20	1.87	1.28	1.05	0.57

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
9.6V	509	320	242	146	88.2	48.6	35.7	28.7	24.4	16.2	13.2	7.2
10.2V	479	303	227	145	82.9	46.8	34.8	27.8	23.9	15.8	12.9	7.0
10.5V	463	294	217	113	72.4	45.8	34.2	26.4	23.8	15.8	12.8	6.95
10.8V	406	285	209	103	68.2	44.8	33.8	26.1	22.7	15.1	12.5	6.8
11.1V	392	275	199	91.3	66	44.5	32.8	26.0	22.2	14.5	12.3	6.7