



VRLA Battery

**NP 100-12**

**12V100AH**

**GEL Battery**

**Gelled Battery**

- completely sealed and maintenance-free, low self-discharge
- 100% precise quality testing, stable quality and high reliable performance
- Unique grid alloy formula, Gelled electrolyte formula and updated manufacturing technique
- Floating & standby use: up to 10 years
- Cycle use 1: More than 400 cycles at 100% DOD

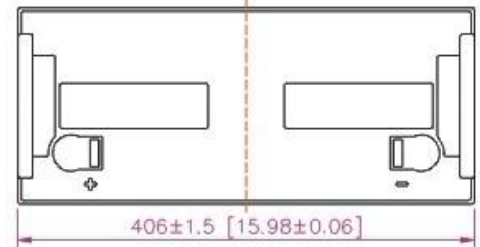
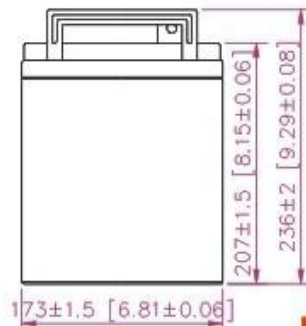
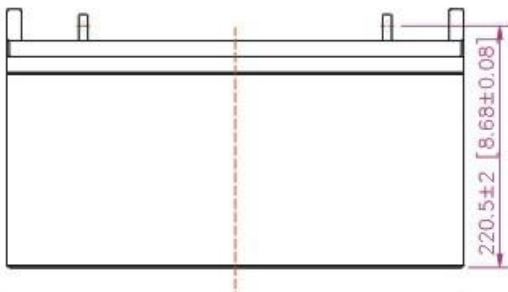
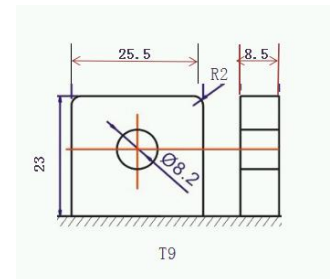
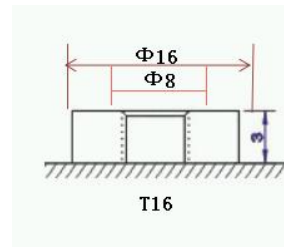


**Application:**

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

**Construction:**

- Component .....Raw material
- Positive .....Lead dioxide
- Negative .....Lead
- Container .....ABS
- Cover .....ABS
- Sealant .....Epoxy
- Safety valve .... Rubber
- Terminal .....Copper/Pb
- Separator .....Fiber glass
- Electrolyte ..... Gelled acid

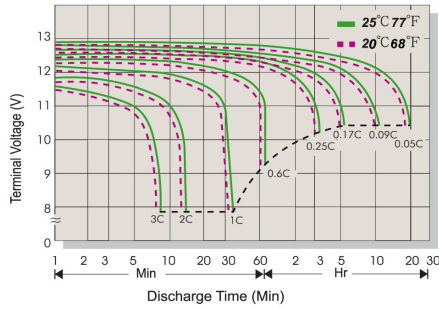


**Specification:**

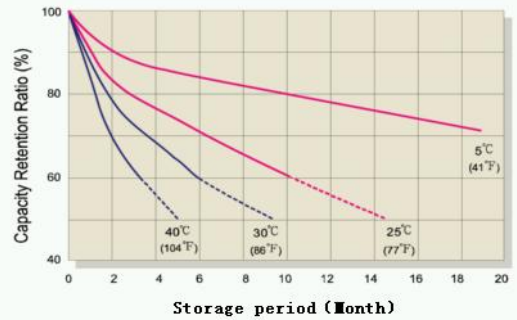
Battery Model	NP 100-12 12V100AH			
Designer Floating Life	Up to 10 Years			
Capacity (25°C)	20HR(5.0A,10.50V)	10HR(9.5A,10.80V)	1HR(55A,9.6V)	0.25h(117A,9.6V)
	100AH	95AH	55.0AH	29.25AH
Dimensions	Length	Width	Height	Total Height
	409mm (16.1inch)	176mm (6.9inch)	225mm (8.9inch)	225mm (8.9inch)
Approx. Weight	31.0Kg			
Internal Resistance	Full charged at 25°C: ≤3.5mΩ			
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%	85%	65%
Charge Voltage(25°C)	Cycle use		Float use	
	14.4-15.0V(-18mV/°C), max. Current:15.0A		13.5-13.8V (-18mV/°C)	



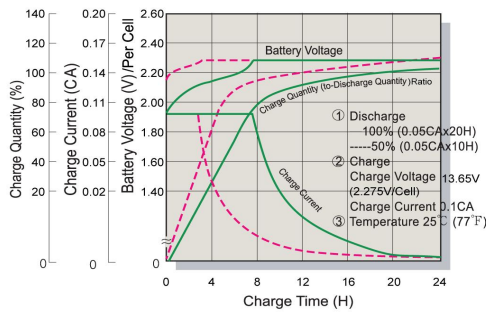
**Terminal Voltage (V) and Discharge Time**



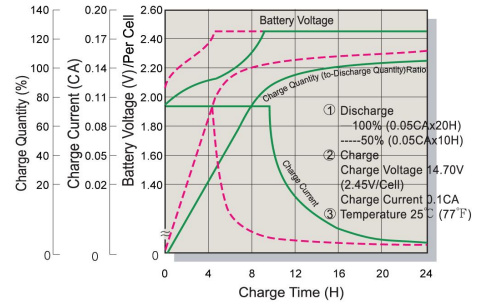
**Capacity Retention Characteristic**



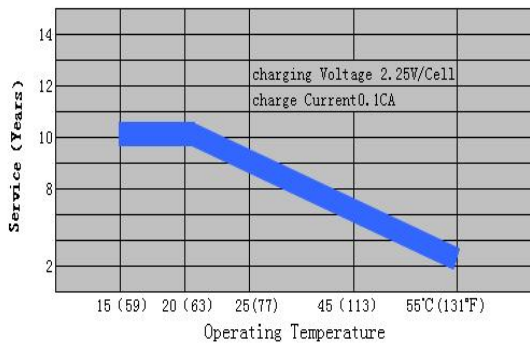
**Battery Voltage and Charge Time for**



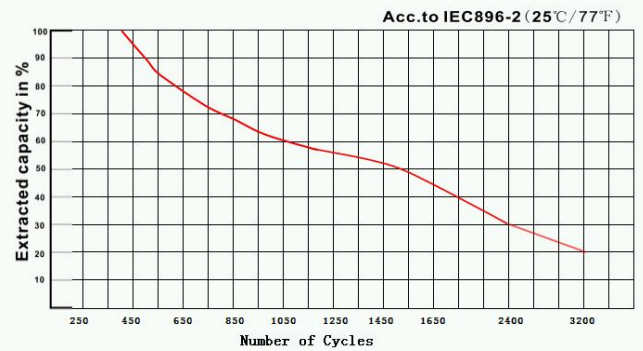
**Battery Voltage and Charge Time for Cycle Use**



**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	27Min	1Hr	2Hr	3Hr	4Hr	5Hr	8Hr	10Hr	20Hr
1.80V/Cell	259.0	205.0	114	97.5	53.4	34.50	24.2	20.80	16.30	11.92	9.50	5.00
1.75V/Cell	266.0	224.0	115	98.5	54.2	36.80	24.5	21.30	16.60	12.12	10.0	5.00
1.70V/Cell	284.0	230.0	116.	99.5	54.7	37.10	25.0	21.30	16.60	12.20	10.2	5.10
1.60V/Cell	318.0	242.0	117	100	55.0	37.60	25.5	21.80	17.10	12.42	10.3	5.20

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

F.V/Time	5Min	10Min	15Min	27Min	1Hr	2Hr	3Hr	4Hr	5Hr	8Hr	10Hr	20Hr
1.80V/Cell	492.1	389.5	204	174	94.4	65.6	42.1	39.5	31.0	22.6	19.0	9.5
1.75V/Cell	505.4	425.6	206	177	96.5	69.9	43.0	40.5	31.5	23.0	19.2	9.9
1.70V/Cell	539.6	437.0	208	179	97.8	70.5	45.0	40.5	31.5	23.2	19.4	10.1
1.60V/Cell	604.2	459.8	210	180	99.8	71.4	46.5	41.4	32.5	23.6	19.8	10.5