



VRLA Battery

NP9 - 12

12V9.0AH

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 3 years
- Cycle use 1: More than 240 cycles at 100% DOD
- Cycle use2: More than 1200 cycles at 30% DOD

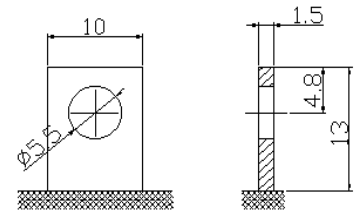


Application:

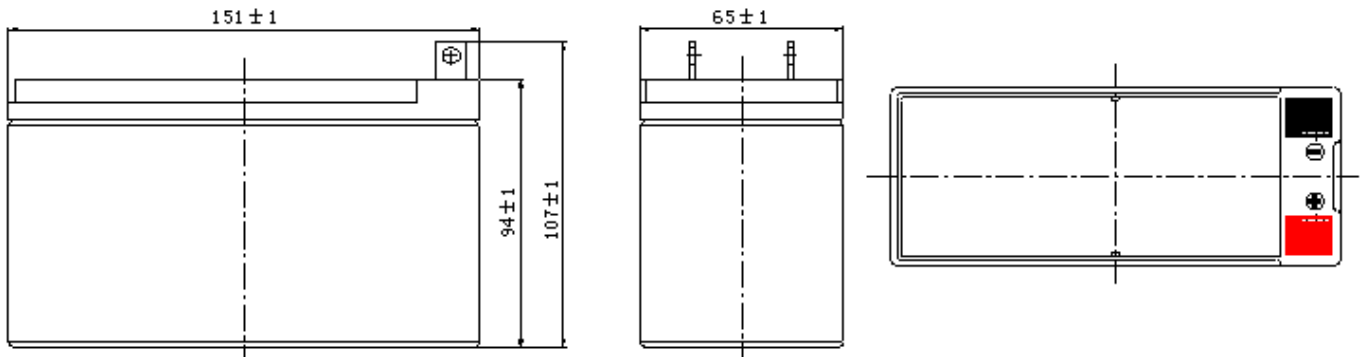
- Telecommunications
- UPS/EPS
- DC Power Supply
- Solar system
- Wind Power System
- Auto Control System

Construction:

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



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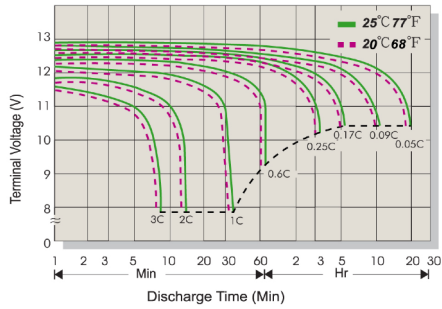


Specification:

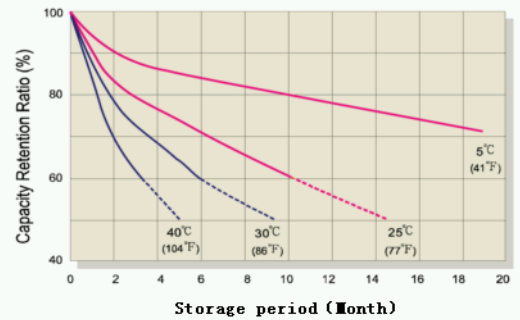
Battery Model	NP 9-12 12V9.0AH			
Designer Floating Life	Up to 3 Years			
Capacity (25°C)	20HR(0.45A, 10.50V)	10HR(0.85A, 10.50V)	1HR(4.5A, 9.6V)	27min(9A, 9.6V)
	9.0AH	8.55AH	4.5AH	4.05AH
Dimensions	Length	Width	Height	Total Height
	152mm (5.99inch)	65mm (2.56inch)	94mm (3.7inch)	107mm (4.21inch)
Approx. Weight	2.3Kg			
Internal Resistance	Full charged at 25°C: ≤20mΩ			
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%	80%	55%
Charge Voltage(25°C)	Cycle use		Float use	
	14.4-15.0V (-18mV/°C), max. Current: 2.7A		13.5-13.8V (-18mV/°C)	



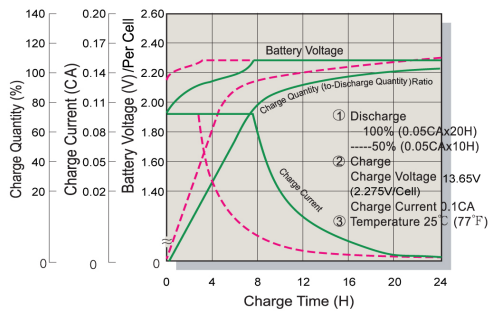
Terminal Voltage (V) and Discharge Time



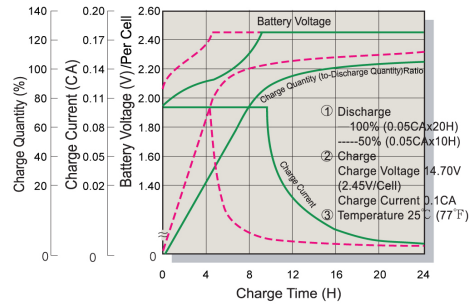
Capacity Retention Characteristic



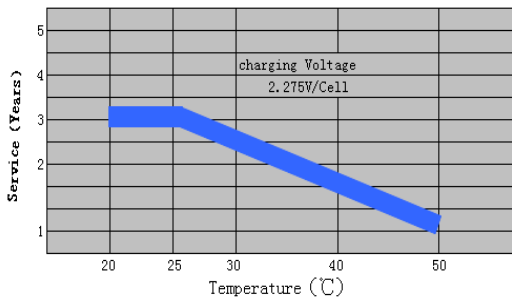
Battery Voltage and Charge Time for Standby Use



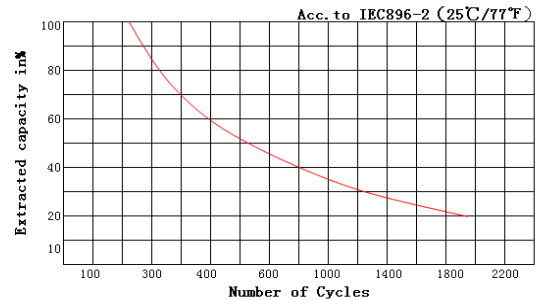
Battery Voltage and Charge Time for Cycle Use



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	27Min	1Hr	2Hr	3Hr	4Hr	5Hr	8Hr	10Hr	20Hr
1.60V	32.5	24.0	16.8	9.00	4.5	2.55	2.33	1.86	1.60	1.04	0.88	0.47
1.70V	30.5	22.7	15.8	8.96	4.4	2.50	2.27	1.82	1.55	1.00	0.86	0.46
1.75V	29.8	21.8	14.8	8.88	4.3	2.50	2.25	1.80	1.54	0.98	0.85	0.45
1.80V	29.2	21.0	13.9	8.45	4.1	2.48	2.14	1.78	1.53	0.96	0.83	0.44

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
1.60V	71.7	44.8	34.6	19.6	8.1	4.08	3.75	2.99	2.58	1.68	1.42	0.77
1.70V	64.8	42.9	32.1	18.5	7.9	4.06	3.73	2.97	2.56	1.66	1.40	0.75
1.75V	61.4	41.1	31.2	17.6	7.7	4.04	3.72	2.96	2.55	1.65	1.40	0.75
1.80V	58.0	39.2	29.4	16.6	7.4	4.03	3.71	2.95	2.54	1.64	1.39	0.74