



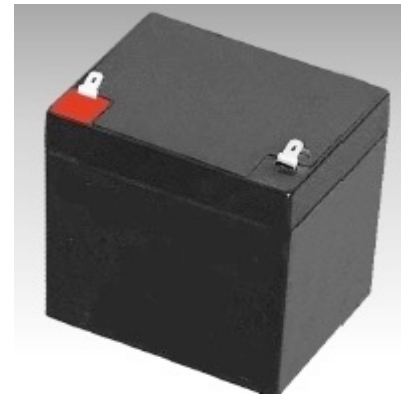
VRLA Battery

NP 5.0-12

12V5.0AH

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 5 years
- Cycle use 1: More than 300 cycles at 80% DOD
- Cycle use 2: More than 1200 cycles at 30% DOD

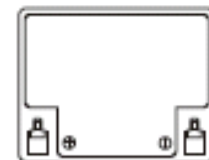
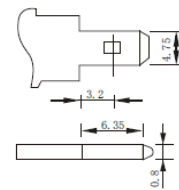
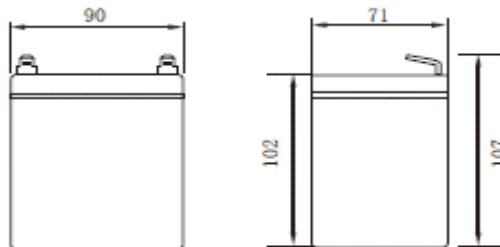


Application:

- 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

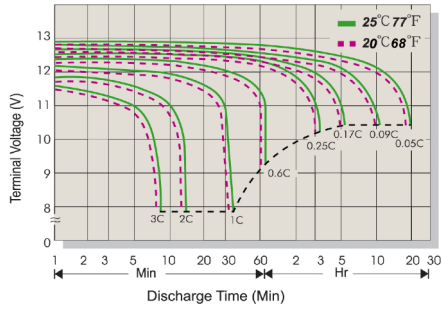


Specification:

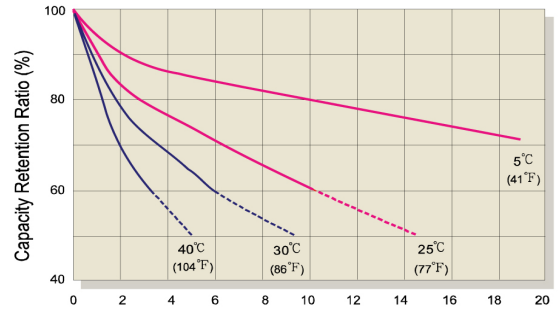
Battery Model	NP 5.0-12 12V5.0AH			
Designer Floating Life	Up to 5 Years			
Capacity (25°C)	20HR(0.28A,10.50V)	10HR(0.5A,10.50V)	5HR(0.85A,10.5V)	1HR(2.75A,10.5V)
	5.5AH	5.0AH	4.25AH	2.75AH
Dimensions	Length	Width	Height	Total Height
	90mm (3.54inch)	70mm (2.76inch)	101mm (3.98inch)	107mm (4.21inch)
Approx. Weight	1.45Kg			
Internal Resistance	Full charged at 25°C: ≤23mΩ			
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: 1.50A		13.6-13.8V (-20mV/°C)	



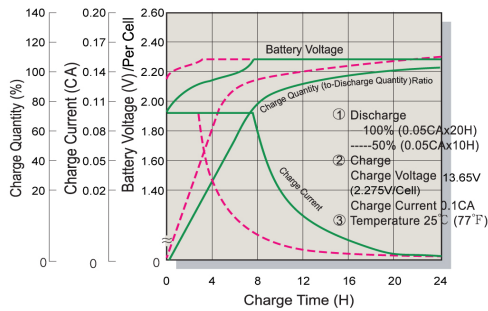
Terminal Voltage (V) and Discharge Time



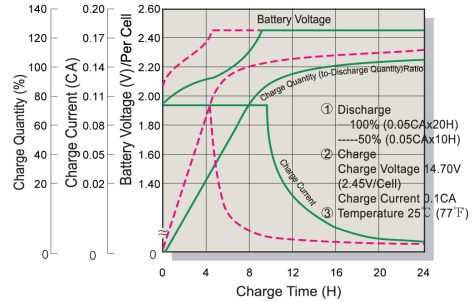
Capacity Retention Characteristic



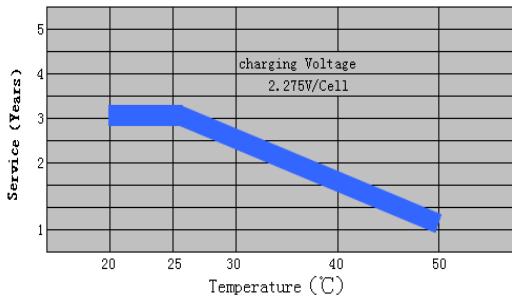
Battery Voltage and Charge Time for Standby Use



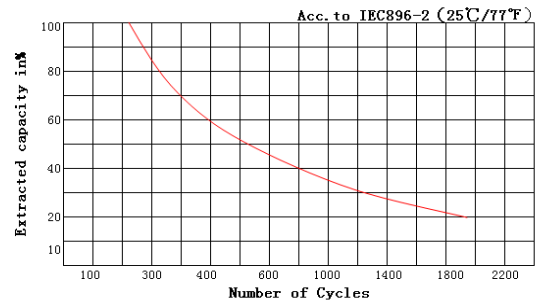
Battery Voltage and Charge Time for Cycle Use



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
9.6V	14.5	10.4	7.5	5.6	3.3	1.72	1.42	1.12	0.94	0.56	0.46	0.26
10.2V	14.2	9.5	7.4	5.4	3.2	1.70	1.40	1.10	0.92	0.54	0.44	0.24
10.5V	12.1	8.5	6.8	5.2	3.1	1.68	1.38	1.08	0.90	0.52	0.42	0.23
10.8V	11.5	7.5	6.3	5.0	3.0	1.66	1.34	1.06	0.88	0.50	0.40	0.22
11.1V	10.8	7.6	5.8	4.8	2.8	1.62	1.32	1.04	0.86	0.48	0.38	0.20

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	149	107	77	58	34	19	15	11.8	9.9	5.88	4.8	2.7
10.2V	146	104	76	56	33	17.8	14.8	11.5	9.6	5.7	4.6	2.5
10.5V	143	95	70	54	32	17.5	14.5	11.3	9.4	5.46	4.4	2.4
10.8V	140	84	64	52	31	17.4	14	11.4	9.2	5.25	4.2	2.3
11.1V	136	75	60	50	29	17.2	13.8	10.9	9.0	5.1	4.0	2.1