



DATASHEET BATTERY 12V 38Ah

MODEL: UPS-B3812

FEATURES

- High performance, completely 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 8 years
- Cycle use 1: Up to 260 cycles at 100% DOD
- Cycle use 2: Up to 500 cycles at 50% DOD

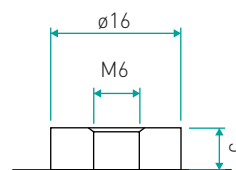
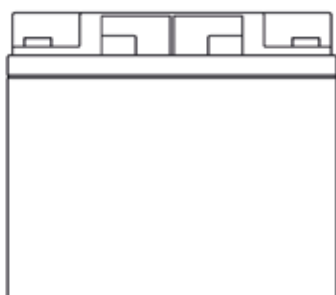
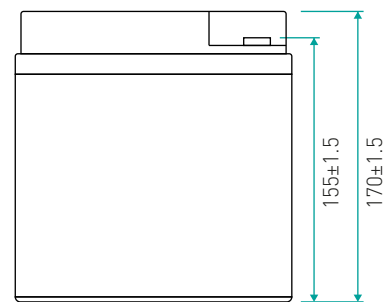
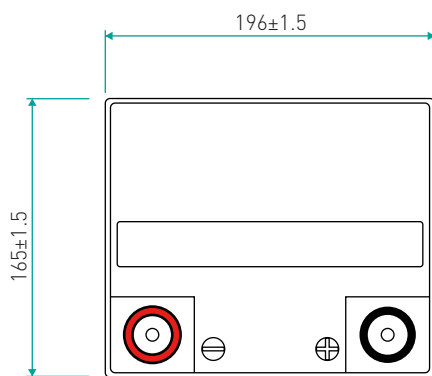
APPLICATION

- | | | |
|------------------------------------|-------------------------------|---------------------|
| Telecommunications | Emergency backup power supply | DC power supply |
| Uninterruptable Power Supply (UPS) | Communication power supply | Auto control system |
| Electric Power System (EPS) | | |

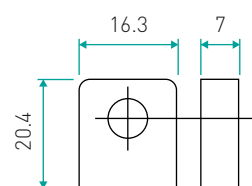
CONSTRUCTION

Component	Raw material
Positive	Lead dioxide
Negative	Lead
Container	ABS
Cover	ABS

Sealant	Epoxy
Safety valve	Rubber
Terminal	Copper / Pb
Separator	Fiber glass
Electrolyte	Sulfuric acid



M6 Bolt



M6 Bolt & Nut

SPECIFICATION

Battery	12V 38Ah			
Designed Floating Life	Up to 8 Years			
Capacity (25°C)	20HR(1.98A,10.8V)	10HR(3.80A,10.8V)	5HR(7.25A, 10.5V)	1HR(24.29A,10.5V)
	39.60Ah	38.00Ah	36.25Ah	24.29Ah
Dimensions	Lenght	Width	Height	Total Height
	196mm	165mm	155mm	170mm
Approx. Weight	12.80Kg ±5%			
Internal Resistance	Full charged at 25°C:≤10.8 mΩ			
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%	85%	65%
Charge Voltage(25°C)	Cycle use			Float use
	14.4-15.0V(-30mV/°C), max. Current:9.50A			13.5-13.8V (-20mV/°C)

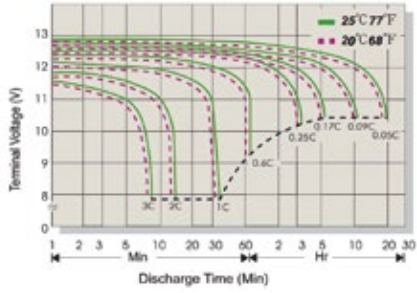
Constant Current Discharge(CC,Unit:A) at 25°C(77°F)

F.V/Time	5min	10min	15min	30min	1Hr	2Hr	3Hr	4Hr	5Hr	6Hr	10Hr	20Hr
1.85V/Cell	132.53	78.24	61.49	40.08	23.39	13.52	10.38	8.53	6.99	5.70	3.73	1.94
1.80V/Cell	135.07	79.73	62.66	40.85	23.84	12.78	10.58	8.69	7.12	5.81	3.80	1.98
1.75V/Cell	137.60	81.23	63.84	41.61	24.29	14.04	10.78	8.85	7.25	5.91	3.88	2.02
1.70V/Cell	149.98	86.10	67.67	43.27	24.71	14.29	10.97	9.01	7.38	6-02	3.94	2.05
1.67V/Cell	165.12	93.41	73.42	45.69	24.98	14.44	11.09	9.11	7.46	6.08	3.99	2.07

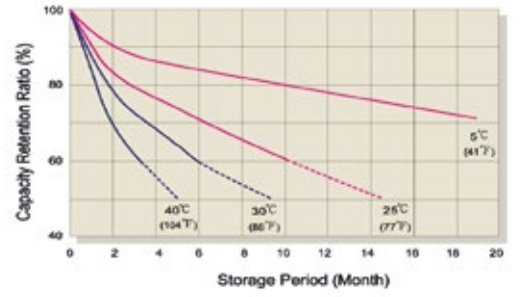
Constant Power Discharge (CP,Unit:W) at 25°C(77°F)

F.V/Time	5min	10min	15min	30min	1Hr	2Hr	3Hr	4Hr	5Hr	6Hr	10Hr	20Hr
1.85V/Cell	258.44	152.56	119.91	78.16	45.62	26.37	20.25	16.63	13.63	11.11	7.28	3.79
1.80V/Cell	263.38	155.48	122.20	79.66	46.49	26.87	20.64	1695	13.89	11.32	7.41	3.86
1.75V/Cell	268.31	158.39	124.49	81.15	47.36	27.38	21.02	17.26	14.15	11.53	7.56	3.93
1.70V/Cell	292.46	167.89	131.96	84.39	48.19	27.86	21.39	17.57	14.40	11.74	7.69	4.00
1.67V/Cell	321.98	182.15	143.15	89.10	48.71	28.16	21.62	17.76	14.55	11.86	7.77	4.04

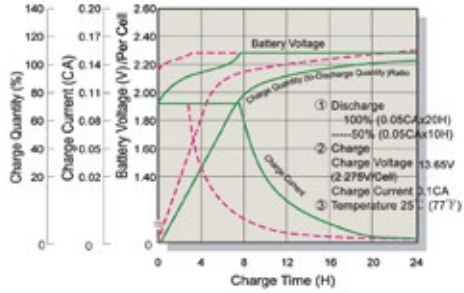
Terminal Voltage (V) and Discharge Time



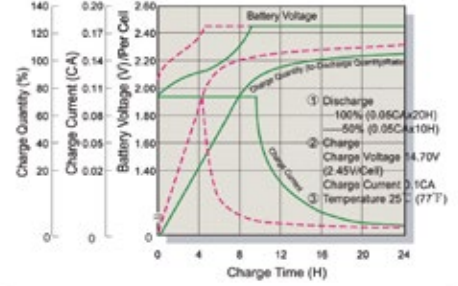
Capacity Retention Characteristic



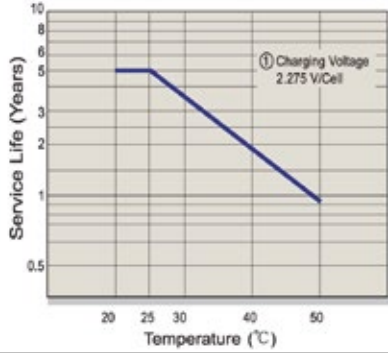
Battery Voltage and Charge Time for Standby Use



Battery Voltage and Charge Time for Cycle Use



Tickle (or Float) Service Life



Cycle Service Life

