

EXP12500 Series—Medium-size Battery

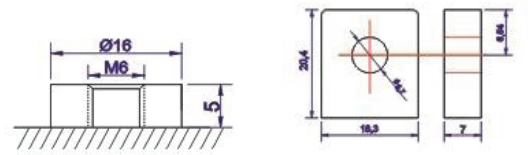
- High performance, completely maintenance-free, low self-discharge
- 100% precise quality testing, stable quality and high reliable performance
- Unique grid alloy formula and updated manufacturing technique
- Floating & standby use: up to 8 years
- Cycle use 1: Up to 260 cycles at 100% DOD
- Cycle use 2: Up to 500 cycles at 50% DOD

Application:

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

Construction:

- ComponentRaw material
- SealantEpoxy
- PositiveLead dioxide
- Safety valve Rubber
- NegativeLead
- TerminalCopper/Pb
- ContainerABS
- SeparatorFiber glass
- CoverABS
- Electrolyte Sulfuric acid

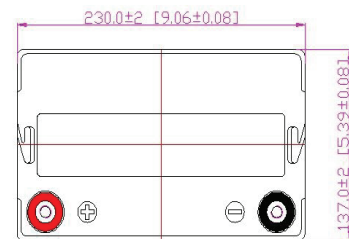
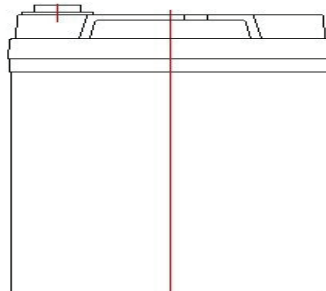
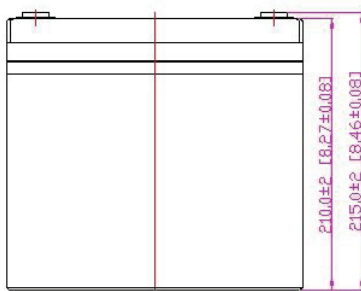


M6 Bolt

M6 Bolt & Nut

B4 Terminal

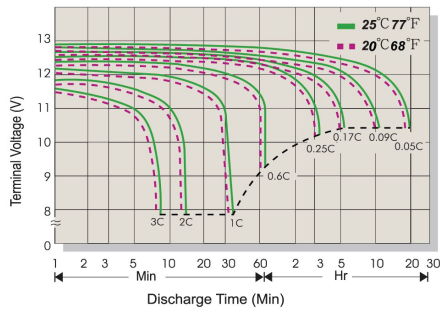
T11 Terminal



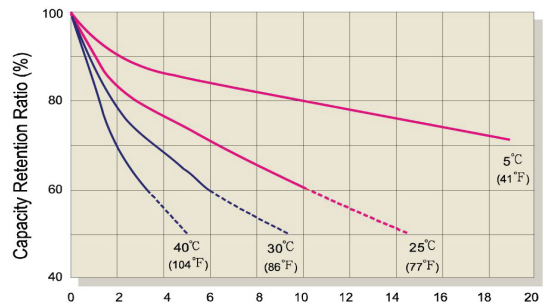
Specification:

Battery Model	EXP12500 12V50AH			
Designed Floating Life	Up to 8 Years			
Capacity (25°C)	20HR(2.60A, 10.5V)	10HR(5.00A, 10.5V)	5HR(9.55A, 10.5V)	1HR(31.96A, 10.5V)
	52.0AH	50.0AH	47.75AH	31.96AH
Dimensions	Length	Width	Height	Total Height
	230mm (9.06inch)	137mm (5.39inch)	210mm (8.27inch)	215mm (8.46inch)
Approx. Weight	16.30Kg (35.94lbs) ± 5%			
Internal Resistance	Full charged at 25°C: ≤6.0mΩ			
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	
	14.40-15.00V(-30mV/°C), max. Current:15.0A		13.50-13.80V (-20mV/°C)	

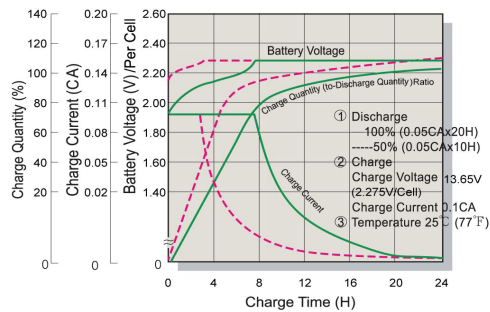
Terminal Voltage (V) and Discharge Time



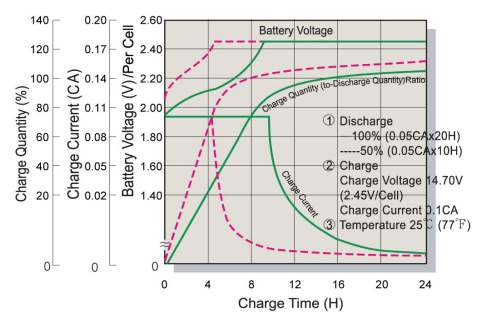
Capacity Retention Characteristic



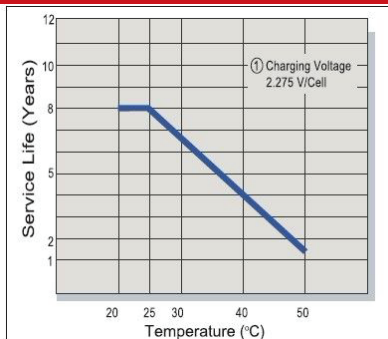
Battery Voltage and Charge Time for Standby Use



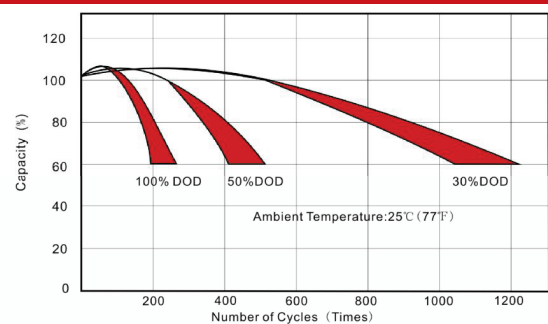
Battery Voltage and Charge Time for Cycle Use



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	6Hr	10Hr	20Hr
1.85V/Cell	174.39	102.94	80.91	52.74	30.78	17.79	13.66	11.22	9.19	7.50	4.91	2.55
1.80V/Cell	177.72	104.91	82.45	53.75	31.37	18.13	13.92	11.43	9.37	7.64	5.00	2.60
1.75V/Cell	181.05	106.88	84.00	54.76	31.96	18.47	14.19	11.65	9.55	7.78	5.10	2.65
1.70V/Cell	197.34	113.29	89.04	56.94	32.52	18.80	14.44	11.85	9.71	7.92	5.19	2.70
1.67V/Cell	217.26	122.91	96.60	60.12	32.87	19.00	14.59	11.98	9.82	8.00	5.25	2.73

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	340.05	200.74	157.77	102.84	60.02	34.70	26.64	21.88	17.93	14.62	9.58	4.98
1.80V/Cell	346.55	204.57	160.79	104.81	61.17	35.36	27.15	22.30	18.27	14.90	9.75	5.08
1.75V/Cell	353.04	208.41	163.80	106.77	62.32	36.02	27.66	22.71	18.61	15.17	9.95	5.17
1.70V/Cell	384.82	220.91	173.63	111.03	63.41	36.66	28.15	23.11	18.94	15.44	10.12	5.26
1.67V/Cell	423.65	239.67	188.37	117.24	64.09	37.05	28.45	23.36	19.14	15.61	10.23	5.32