

12V65Ah

AGM Deep Cycle Rechargeable Battery

For main and standby power supplies. Expected trickle design life: 15 years at 25°C

Specification

Nominal Voltage	12V	
Nominal Capacity(20HR)	65.0AH	
Dimensions	Length	348 ± 3mm
	Width	167 ± 2mm
	Container Height	178 ± 2mm
	Total Height (with Terminal)	178 ± 2mm
Approx Weight	Approx 19.2 kg	
Terminal	T6	
Container Material	ABS	
Rated Capacity	65.0 AH/3.25A	20hr, 1.80V/cell, 25 °C
	62.1 AH/6.21A	10hr, 1.80V/cell, 25 °C
	53.6 AH/10.72A	5hr, 1.75V/cell, 25 °C
	45.8 AH/15.3A	3hr, 1.75V/cell, 25 °C
	37.5 AH/37.5A	1hr, 1.60V/cell, 25 °C
Max. Discharge Current	780A (5s)	
Internal Resistance	Approx 7.3mΩ	
Operating Temp. Range	Discharge	-15~50°C
	Charge	0~40°C
	Storage	-15~40°C
Nominal Operating Temp. Range	25 ± 3°C	
Cycle Use	Initial Charging Current less than 19.5A. Voltage 14.4V~15.0V at 25°C Temp. Coefficient -30mV/°C	
	No limit on Initial Charging Current Voltage 13.5V~13.8V at 25°C Temp. Coefficient -20mV/°C	
Standby Use		
Capacity affected by Temperature	40°C	103%
	25°C	100%
	0°C	86%
Self Discharge	BOLT series batteries may be stored for up to 6 months at 25°C and then a freshening charge is required. For higher temperatures the time interval will be shorter.	



Applications

- ◆ All purpose
- ◆ Uninterruptable Power Supply (UPS)
- ◆ Electric Power System (EPS)
- ◆ Emergency backup power supply
- ◆ Emergency light
- ◆ Railway Signal
- ◆ Aircraft Signal
- ◆ Alarm and Security System
- ◆ Electronic Apparatus and equipment
- ◆ Communication power supply
- ◆ DC Power supply
- ◆ Auto control system

Constant Current Discharge (Amperes) at 25 °C

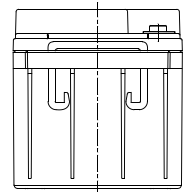
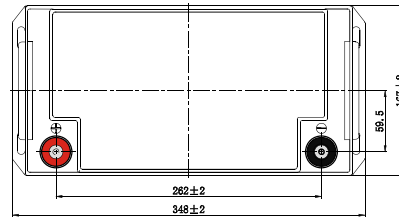
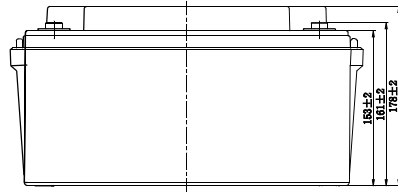
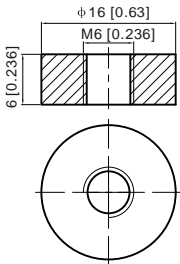
F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	114.0	87.6	75.5	65.6	50.8	37.8	30.6	18.5	14.2	11.78	10.04	8.79	7.11	5.98	3.20
1.80V/cell	142.7	102.5	85.9	73.8	55.7	40.8	32.7	19.7	14.9	12.34	10.47	9.16	7.40	6.21	3.25
1.75V/cell	160.9	111.8	93.8	79.0	58.7	42.8	34.2	20.4	15.3	12.65	10.72	9.35	7.51	6.27	3.29
1.70V/cell	177.1	120.7	100.1	82.9	61.4	44.3	35.6	21.1	15.8	12.96	10.97	9.53	7.62	6.33	3.32
1.65V/cell	193.8	130.0	105.1	86.1	63.3	45.8	36.6	21.6	16.2	13.23	11.18	9.70	7.73	6.40	3.37
1.60V/cell	210.1	138.2	109.3	89.4	65.0	47.4	37.5	22.1	16.6	13.49	11.38	9.84	7.83	6.48	3.38

Constant Power Discharge (Watts/cell) at 25 °C

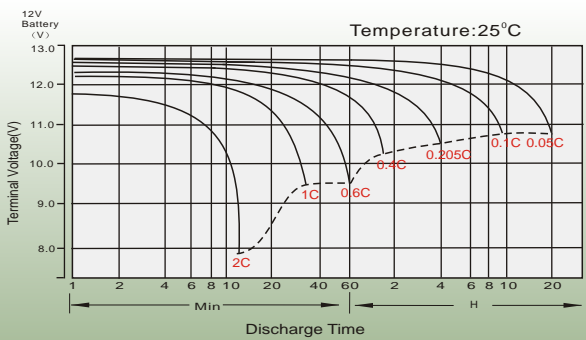
F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	208.5	161.7	140.9	123.6	96.8	72.7	59.1	35.9	27.7	23.0	19.7	17.28	14.04	11.83	6.34
1.80V/cell	258.1	187.0	158.1	137.0	104.6	77.9	62.8	37.9	29.0	24.0	20.4	17.93	14.56	12.27	6.43
1.75V/cell	284.8	200.8	170.5	145.3	109.3	80.9	65.3	39.3	29.6	24.5	20.9	18.24	14.74	12.38	6.50
1.70V/cell	304.9	211.9	179.5	151.4	113.6	83.4	67.7	40.4	30.4	25.1	21.3	18.58	14.94	12.49	6.56
1.65V/cell	328.8	226.2	186.9	156.0	116.3	85.4	69.1	41.2	31.1	25.5	21.6	18.84	15.13	12.61	6.64
1.60V/cell	348.4	235.0	191.2	160.3	118.4	87.9	70.5	41.9	31.6	25.9	21.9	19.07	15.30	12.74	6.66

Dimensions

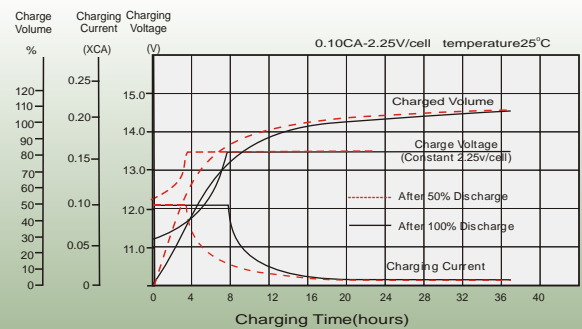
T6 Terminal Unit: mm



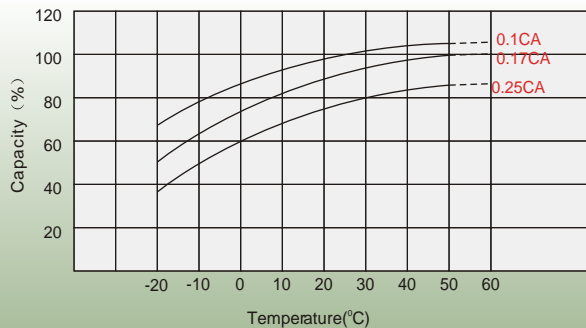
Discharge Characteristics



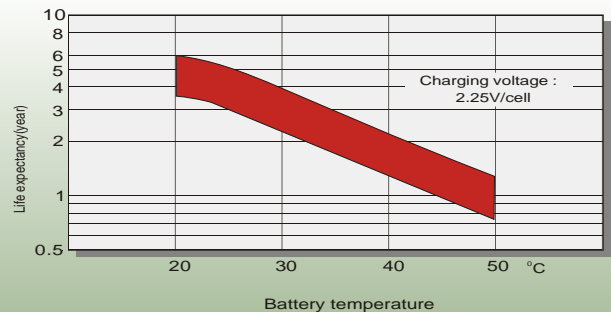
Float Charging Characteristics



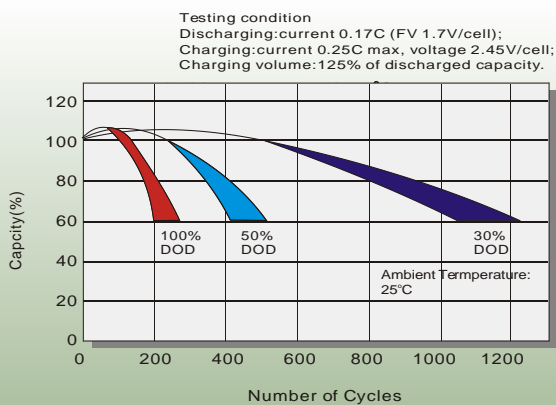
Temperature Effects in Relation to Battery Capacity



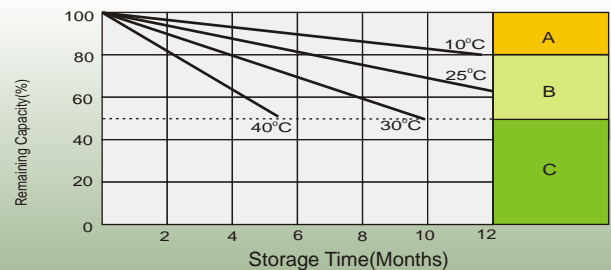
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics



- A** No supplementary charge required
(Carry out supplementary charge before use if 100% capacity is required.)
- B** Supplementary charge required before use. Optional charging way as below:
1. Charged for above 3 days at limited current 0.25CA and constant voltage 2.25V/cell.
2. Charged for above 20 hours at limited current 0.25CA and constant voltage 2.45V/cell.
3. Charged for 8-10 hours at limited current 0.05CA.
- C** Supplementary charge may often fail to recover the capacity.
The battery should never be left standing till this is reached.