



KBS SERIES-AGM SOLAR Purpose

KBS122500 (12V250AH C₁₀₀)

Specification

Nominal Voltage	12V	
Nominal Capacity (100HR)	250.0AH	
Dimensions	Length	522±3mm (20.55 inches)
	Width	240±3mm (9.45 inches)
	Container Height	218±3mm (8.58 inches)
	Total Height (with Terminal)	224±3mm (8.81 inches)
Approx Weight	Approx 57.4 kg (126.6lbs)	
Terminal	T11	
Container Material	ABS	
Rated Capacity	250.0 AH/2.50A	(100hr, 1.80V/cell, 25°C/77°F)
	200.0 AH/20.0A	(10hr, 1.80V/cell, 25°C/77°F)
	172.5 AH/34.5A	(5hr, 1.75V/cell, 25°C/77°F)
	156.0 AH/52.0A	(3hr, 1.75V/cell, 25°C/77°F)
	122.0 AH/122.0A	(1hr, 1.60V/cell, 25°C/77°F)
Max. Discharge Current	2000A (5s)	
Internal Resistance	Approx 2.7mΩ	
Operating Temp. Range	Discharge	-15~50°C (5~122°F)
	Charge	0~40°C (32~104°F)
	Storage	-15~40°C (5~104°F)
Nominal Operating Temp. Range	25±3°C (77±5°F)	
Cycle Use	Initial Charging Current less than 60.0A. Voltage	
	14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C	
Standby Use	No limit on Initial Charging Current Voltage	
	13.5V~13.8V at 25°C(77°F)Temp. Coefficient -20mV/°C	
Capacity affected by Temperature	40°C (104°F)	103%
	25°C (77°F)	100%
	0°C (32°F)	86%
Self Discharge	Kaise KBS series batteries may be stored for up to 6 months at 25°C(77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.	



Applications

- ◆ All purpose
- ◆ Green Energy Systems (Solar, Wind)
- ◆ 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



Constant Current Discharge (Amperes) at 25 °C (77°F)

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h	100h
1.85V/cell	278.4	240.0	204.6	154.8	115.1	94.3	60.1	46.2	37.6	31.3	22.1	18.9	10.3	2.45
1.80V/cell	343.9	282.4	235.8	179.5	133.9	105.6	65.5	50.6	40.6	33.6	23.4	20.0	10.4	2.50
1.75V/cell	377.8	302.0	250.2	189.2	139.0	110.5	68.0	52.0	41.7	34.5	23.8	20.2	10.5	2.52
1.70V/cell	411.8	322.5	264.0	196.4	144.5	114.0	70.7	53.5	42.7	35.3	24.2	20.4	10.7	2.55
1.65V/cell	444.4	342.9	281.4	204.6	148.1	117.8	72.7	55.8	44.2	36.3	24.7	20.8	10.8	2.59
1.60V/cell	476.4	366.7	297.6	216.0	154.4	122.0	75.1	57.5	45.5	37.3	25.1	21.0	10.9	2.61

Constant Power Discharge (Watts/Cell) at 25 °C (77°F)

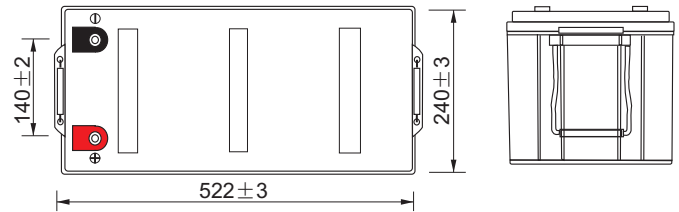
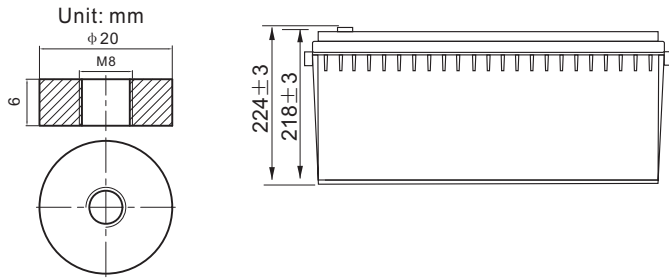
F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h	100h
1.85V/cell	514.3	447.8	385.7	295.0	221.3	181.9	116.6	90.1	73.4	61.3	43.6	37.4	20.4	4.51
1.80V/cell	627.7	519.9	438.0	336.9	255.4	202.6	126.4	98.1	78.9	65.5	46.1	39.5	20.6	4.59
1.75V/cell	678.7	549.2	460.2	352.2	262.5	211.0	130.6	100.5	80.7	67.2	46.8	39.9	20.7	4.62
1.70V/cell	723.0	578.2	482.0	363.5	272.0	217.0	135.6	103.1	82.6	68.6	47.4	40.2	21.1	4.68
1.65V/cell	773.1	610.1	509.9	375.7	276.3	222.7	138.5	107.0	85.1	70.2	48.4	41.0	21.4	4.74
1.60V/cell	809.8	641.7	533.4	393.8	286.4	229.4	142.5	109.8	87.3	72.0	49.0	41.4	21.5	4.78

Specifications subject to change without notice.

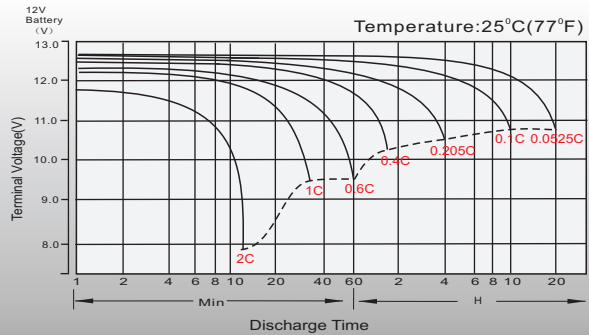


Dimensions

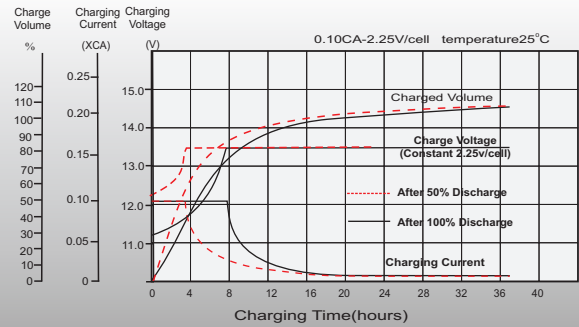
T11 Terminal



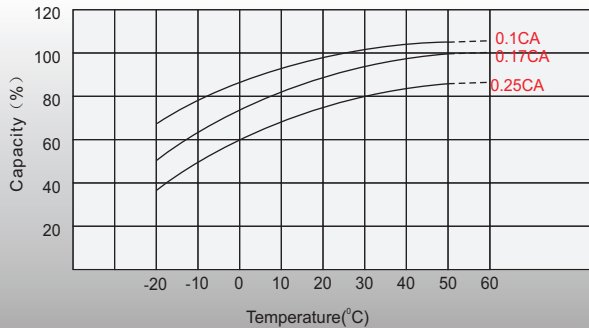
Discharge Characteristics



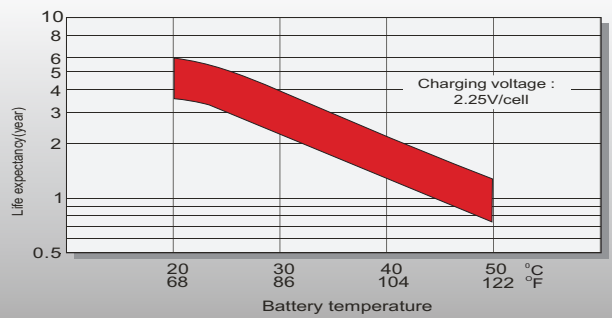
Float Charging Characteristics



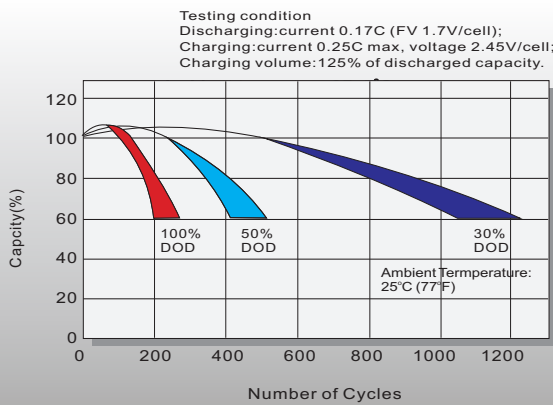
Temperature Effects in Relation to Battery Capacity



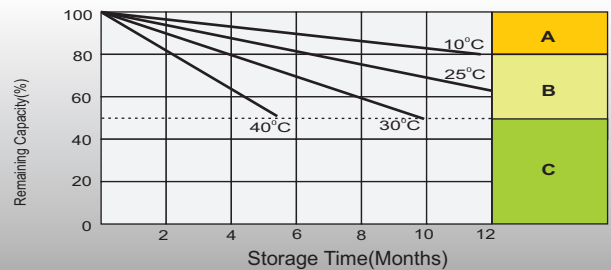
Effect of Temperature on Long Term Float Life



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.