

**RANGE SUMMARY**

By combining proprietary high rate plate design with low internal resistance AGM separators, BSB created the innovative High Rate range of batteries. This range offers extremely high power output at 15 minutes backup time with 12 years design life and is highly suited to high rate UPS and power switchgear applications.



**Application**

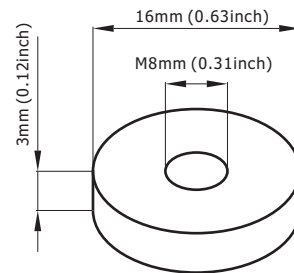
- Alarm System
- Cable Television
- Communication Equipment
- Control Equipment
- Security System
- Medical Equipment
- Toys
- UPS
- Emergency Power System

**General Features**

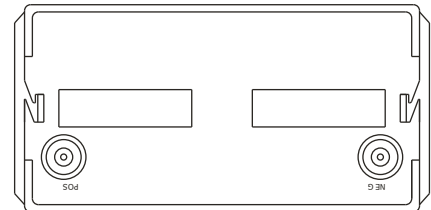
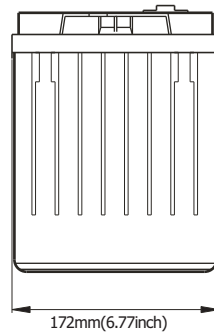
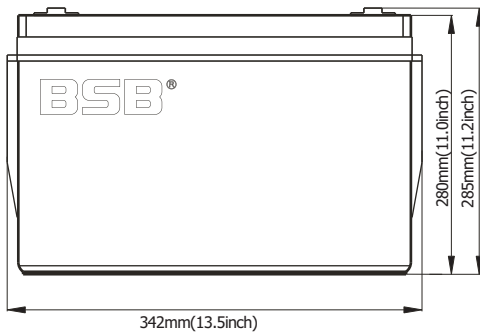
- Sealed and maintenance free operation.
- Non-Spillable construction design.
- ABS containers and covers(UL94 V0, optional).
- Safety valve installation for explosion proof.
- High quality and high reliability.
- Exceptional deep discharge recovery performance.
- Low self discharge characteristic.
- Flexible design for multiple installation positions.

**Construction**

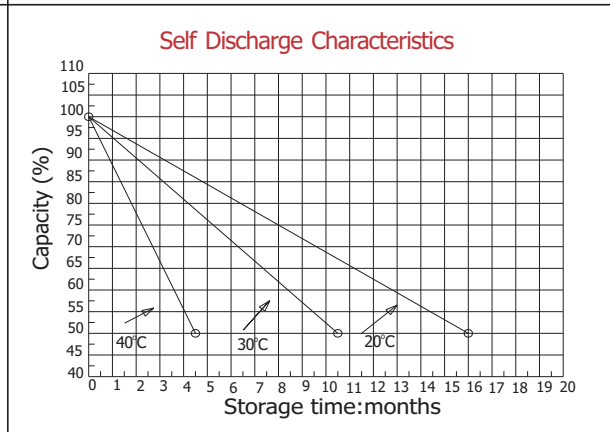
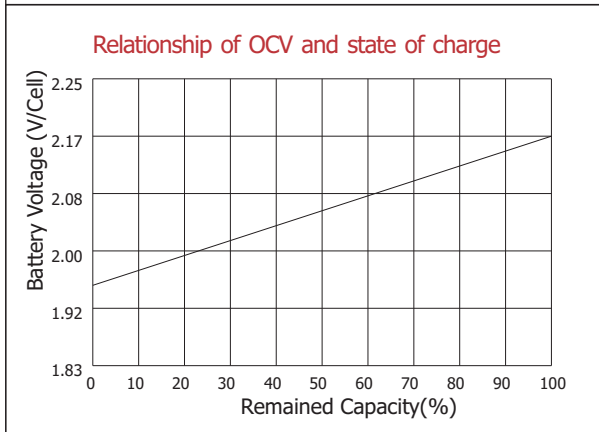
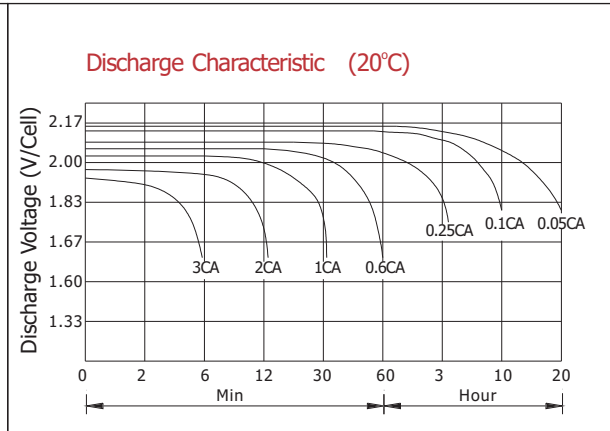
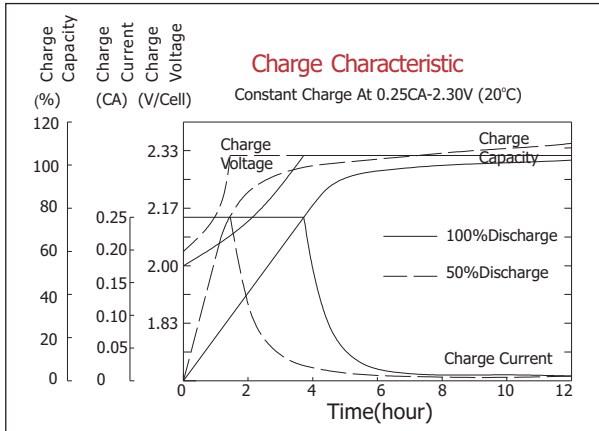
- Positive ..... Lead dioxide
- Negative ..... Lead
- Container ..... ABS
- Cover ..... ABS
- Sealant ..... Epoxy Resin
- Safety valve ..... EPDR
- Terminal ..... Copper
- Separator ..... AGM
- Electrolyte ..... Sulfuric acid



**Terminal Dimensions**



Battery Model	HR12-500W (500W to 1.67V, 15min)			
Designed Floating Life	12 Years			
Capacity(20°C)	20HR(8A,1.80V)	10HR(15.5A,1.80V)	5HR(27.7A,1.75V)	1HR(110A,1.60V)
	160AH	155AH	138.5AH	110AH
Dimensions	Length	Width	Height	Total Height
	342mm(13.5inch)	172mm(6.77inch)	280mm(11.0inch)	285mm(11.2inch)
Approx. Weight	45.2Kg (99.7 lbs)			
Internal Resistance	Full charged at 20°C: 0.0088 Ohm			
Self Discharge	3% of capacity declined per month at (20°C)			
Capacity Affected by Temp.(20HR)	40°C	20°C	0°C	-15°C
	102%	100%	85%	65%
Charge Voltage(20°C)	Cycle use		Float use	
	14.4-14.8V(-30mV/ °C), max. Current: 38.75A		13.6-13.8V(-20mV/ °C)	



**Constant current discharge ratings-amperes at 20°C**

F. V/Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
1.60V	591	368	277	169	110	48.4	29.6	16.1	8.87
1.67V	555	349	267	162	109	46.5	28.9	15.9	8.56
1.70V	508	336	261	147	105	43.4	28.3	15.9	8.43
1.75V	498	326	252	140	100.4	42.0	27.7	15.8	8.21
1.80V	446	311	229	129	94.0	40.3	26.0	15.5	8.00
1.85V	393	296	206	119	87.6	38.9	24.4	15.3	7.76

**Constant power discharge ratings-watts at 20°C**

F. V/Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
1.60V	1037	664	506	305	199	85.8	49.9	33.1	17.4
1.67V	1000	647	500	298	198	83.1	49.7	32.9	16.7
1.70V	942	641	496	279	194	79.4	49.1	32.7	16.5
1.75V	948	639	492	271	191	77.5	48.7	32.2	16.2
1.80V	867	629	456	258	180	75.2	47.1	31.8	16.0
1.85V	787	597	413	242	169	73.0	45.6	31.4	15.8

