

**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**

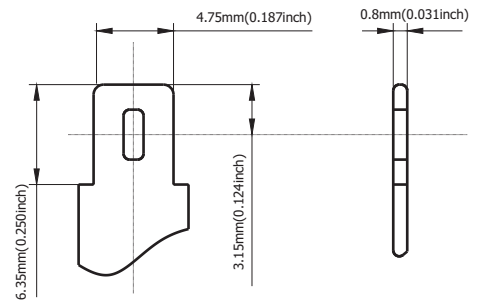
- Alarm System
- Cable Television
- Communication Equipment
- Control Equipment
- Security System
- Medical Equipment
- Toys
- UPS
- Emergency Power System

**General Features**

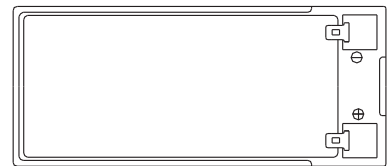
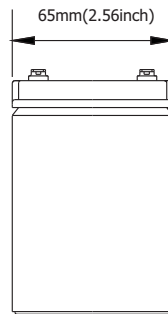
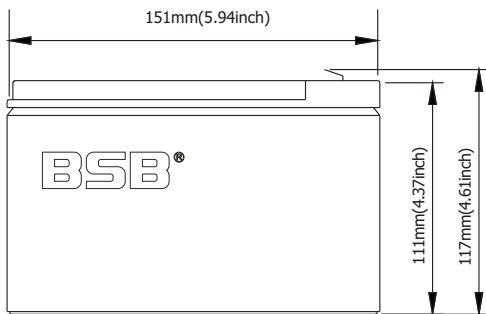
- Sealed and maintenance free operation.
- Non-Spillable construction design.
- ABS containers and covers(UL94 V0, optional).
- Safety valve installation for explosion proof.
- High quality and high reliability.
- Exceptional deep discharge recovery performance.
- Low self discharge characteristic.
-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

**Construction**

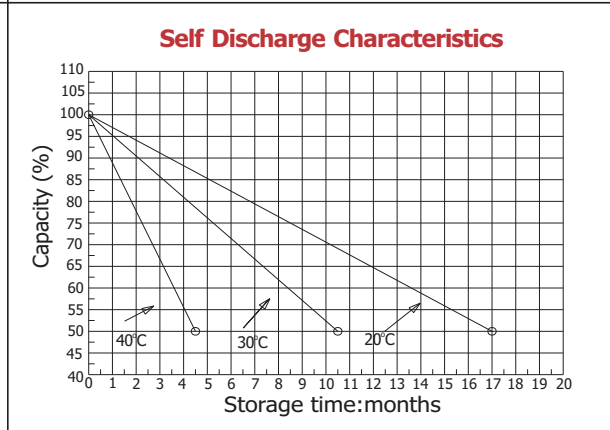
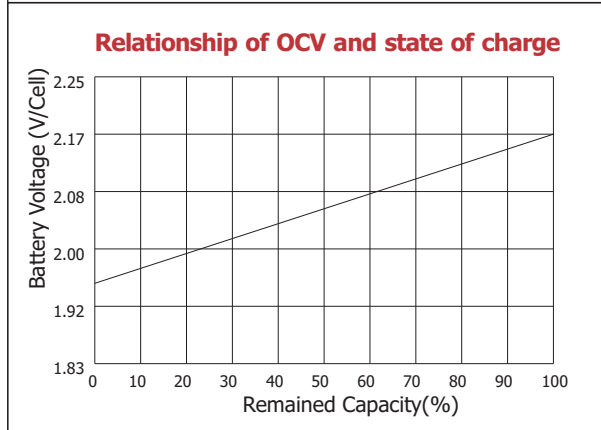
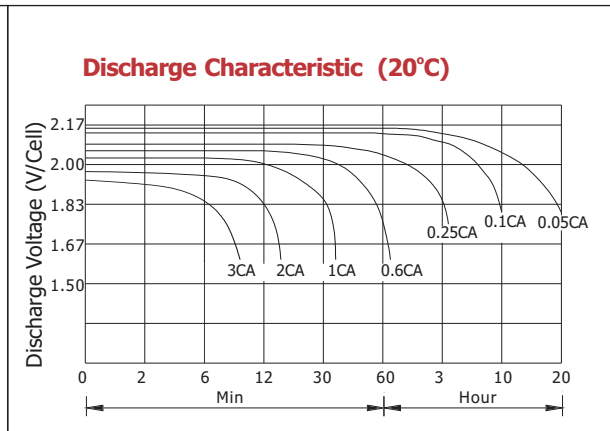
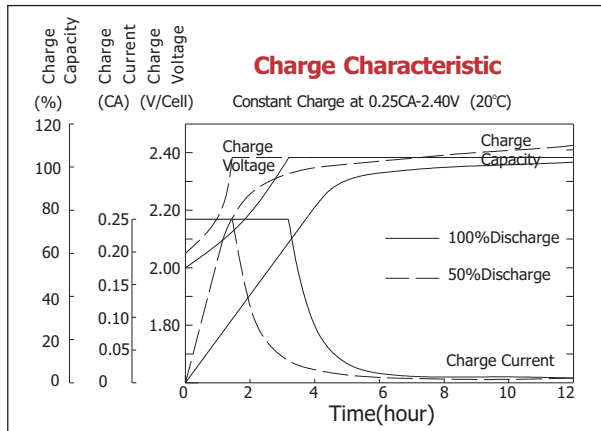
- Positive ..... Lead dioxide
- Negative ..... Lead
- Container ..... ABS
- Cover ..... ABS
- Sealant ..... Epoxy Resin
- Safety valve ..... EPDR
- Terminal ..... Copper
- Separator ..... AGM
- Electrolyte ..... Sulfuric acid



**Terminal Dimensions**



Battery Model	HR12-43W			
Designed Floating Life	12 Years			
Capacity(20°C,at 1.67Vpc)	10min	15min	30min	1h
	55.6Wpc	43Wpc	25.5Wpc	12.9Wpc
Dimensions	Length	Width	Height	Total Height
	151mm(5.94inch)	65mm(2.56inch)	111mm(4.37inch)	117mm(4.61inch)
Approx. Weight	3 Kg (6.62 lbs)			
Internal Resistance	Full charged at 20°C: 0.017 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
	109%	100%	85%	65%
Charge Voltage(20°C)	Cycle use		Float use	
	14.4-14.8V(-30mV/ °C), max. Current: 3A		13.6-13.8V(-18mV/ °C)	



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

F.V/Time	5m in	10min	15m in	30m in	45min	1h	1.5h	2h	3h
1.60V	50.8	31.6	23.8	14.5	9.66	7.22	5.19	4.18	3.17
1.67V	47.7	30.0	22.9	13.9	9.38	7.12	5.08	4.06	3.05
1.70V	43.7	28.9	22.4	12.6	8.82	6.90	4.87	3.86	2.84
1.75V	42.8	28.0	21.7	12.0	8.39	6.58	4.66	3.71	2.75
1.80V	38.3	26.7	19.7	11.1	7.82	6.16	4.40	3.52	2.64
1.85V	33.8	25.5	17.7	10.2	7.24	5.74	4.14	3.34	2.54

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

F.V/Time	5min	10min	15m in	30m in	45min	1h	1.5h	2h	3h
1.60V	89.2	57.1	43.5	26.2	17.4	13.0	3.50	7.47	5.62
1.67V	86.0	55.6	43.0	25.7	17.2	12.9	3.45	7.32	5.44
1.70V	81.0	55.1	42.6	24.0	16.5	12.7	3.36	7.07	5.20
1.75V	77.9	54.7	42.3	23.3	16.1	12.5	3.29	6.93	5.08
1.80V	74.6	54.1	39.2	22.2	15.3	11.8	3.13	6.64	4.93
1.85V	67.6	51.3	35.6	20.8	14.3	11.1	2.97	6.35	4.78

