

**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**

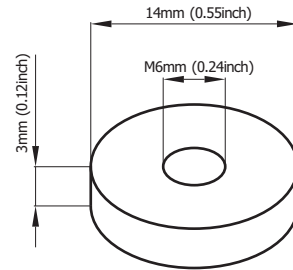
- Alarm System
- Cable Television
- Communication Equipment
- Control Equipment
- Security System
- Medical Equipment
- Toys
- UPS
- Emergency Power System

**General Features**

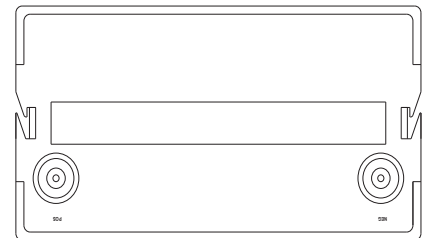
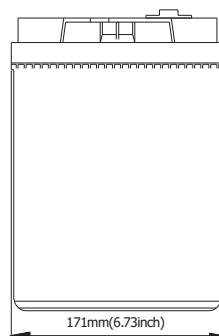
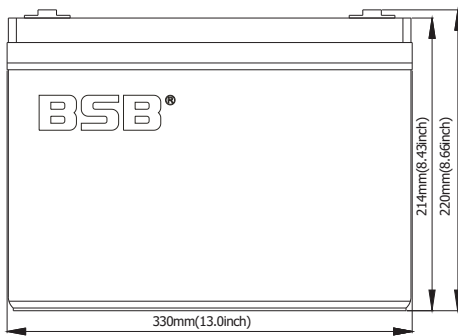
- Sealed and maintenance free operation.
- Non-Spillable construction design.
- ABS containers and covers(UL94 V0, optional).
- Safety valve installation for explosion proof.
- High quality and high reliability.
- Exceptional deep discharge recovery performance.
- Low self discharge characteristic.
-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

**Construction**

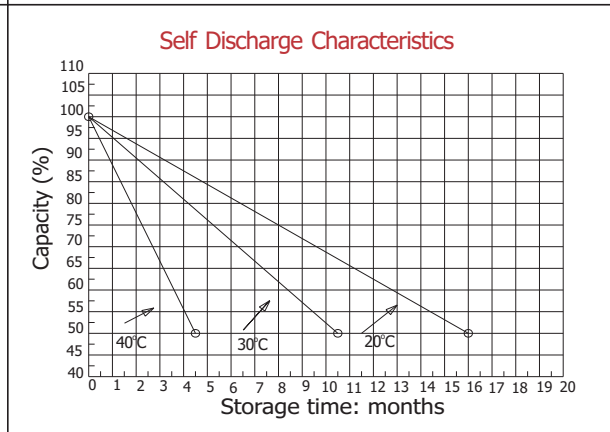
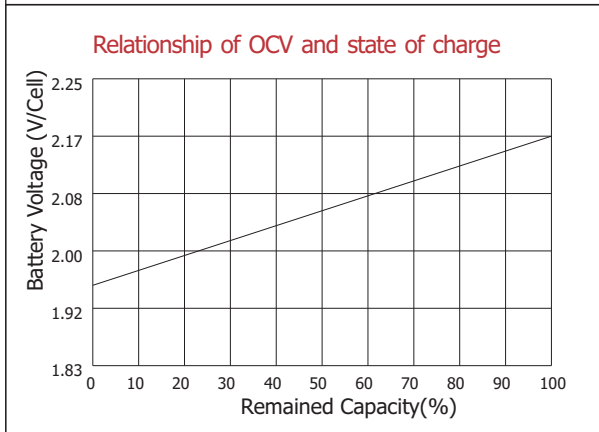
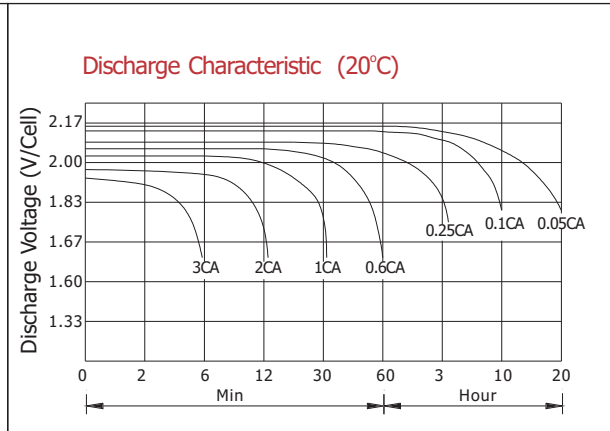
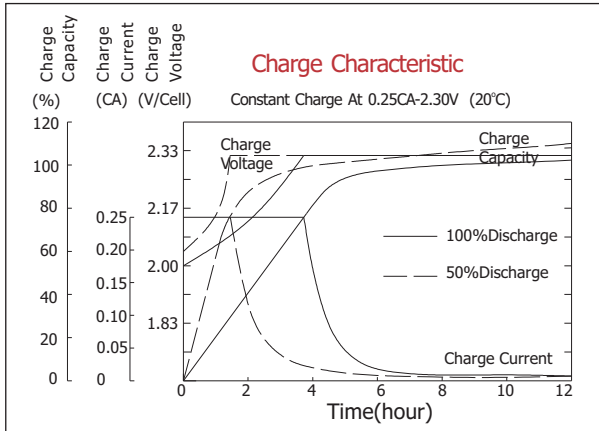
- Positive ..... Lead dioxide
- Negative ..... Lead
- Container ..... ABS
- Cover ..... ABS
- Sealant ..... Epoxy Resin
- Safety valve ..... EPDR
- Terminal ..... Copper
- Separator ..... AGM
- Electrolyte ..... Sulfuric acid



Terminal Dimensions



Battery Model	HR12-370W(370W to 1.67V, 15min)			
Designed Floating Life	12 Years			
Capacity(20°C)	20HR(5.6A,1.80V)	10HR(11.0A,1.80V)	5HR(19.7A,1.75V)	1HR(78.2A,1.60V)
	112Ah	110Ah	99Ah	78Ah
Dimensions	Length	Width	Height	Total Height
	330mm(13.0inch)	171mm(6.73inch)	214mm(8.43inch)	220mm(8.66inch)
Approx. Weight	30Kg (66.2 lbs)			
Internal Resistance	Full charged at 20°C: 0.0060 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: 27.5A		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	437	272	205	125	78.2	34.3	21.0	11.4	6.17
1.67V	410	258	197	120	77.1	33.0	20.5	11.3	5.96
1.70V	376	249	193	109	74.8	30.8	20.1	11.3	5.86
1.75V	369	241	187	103	71.3	29.8	19.7	11.2	5.71
1.80V	330	230	169	96	66.7	28.6	18.5	11.0	5.60
1.85V	291	219	152	88.1	62.2	27.6	17.3	10.9	5.50

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

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
1.60V	767	491	375	225	141	60.9	35.4	23.5	12.3
1.67V	740	479	370	221	140	59.0	35.3	23.3	12.1
1.70V	697	474	367	207	138	56.3	34.8	23.2	11.9
1.75V	701	473	364	201	135	55.0	34.5	22.9	11.7
1.80V	642	466	337	191	127	53.4	33.5	22.6	11.5
1.85V	582	442	306	179	120	51.8	32.4	22.3	11.3

