

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

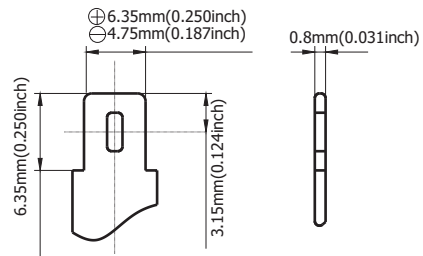
- Alarm System
- Cable Television
- Communication Equipment
- Control Equipment
- Security System
- Medical Equipment
- Toys
- UPS
- Emergency Power System

General Features

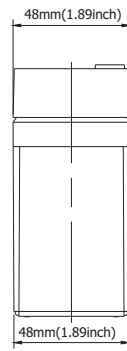
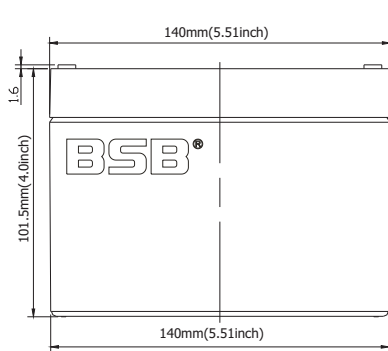
- Sealed and maintenance free operation.
- Non-Spillable construction design.
- ABS containers and covers(UL94 V0, optional).
- Safety valve installation for explosion proof.
- High quality and high reliability.
- Exceptional deep discharge recovery performance.
- Low self discharge characteristic.
-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

Construction

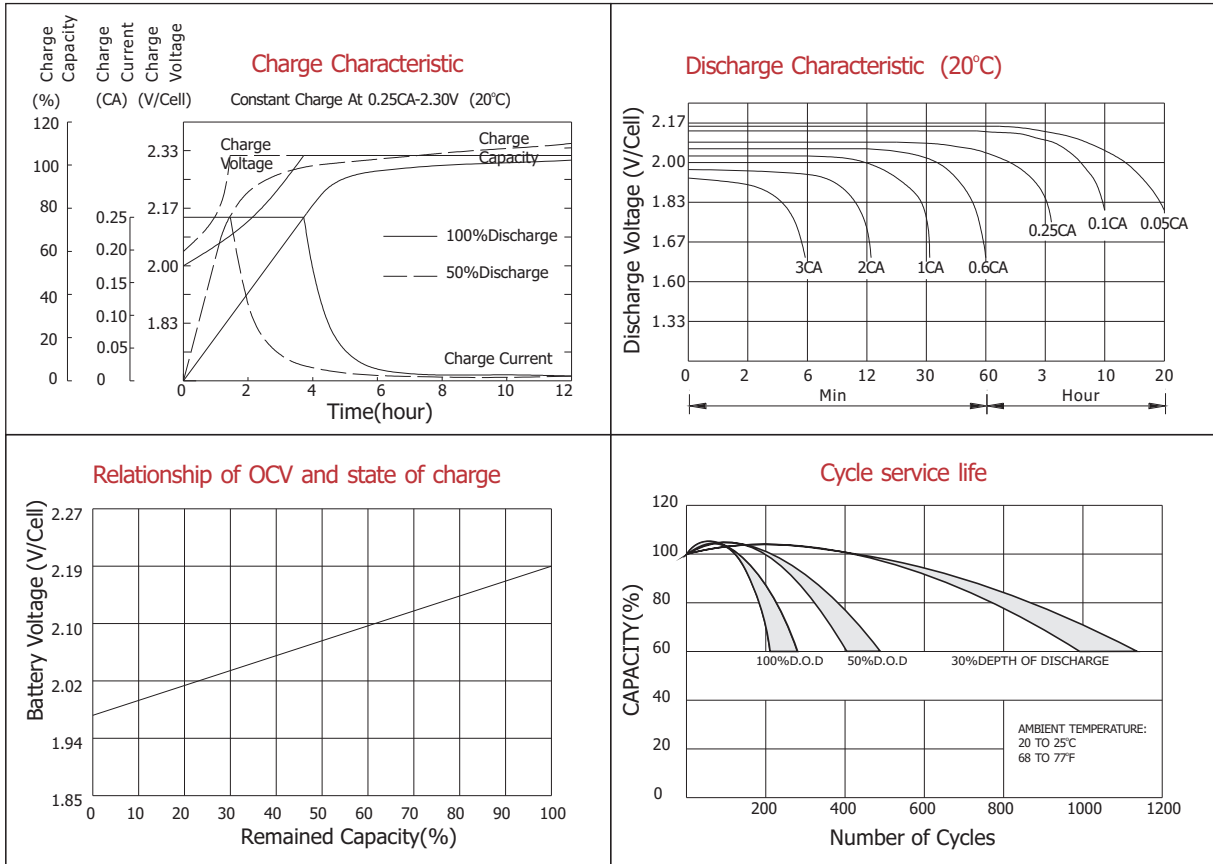
- Positive Lead dioxide
- Negative Lead
- Container ABS
- Cover ABS
- Sealant Epoxy Resin
- Safety valve EPDR
- Terminal Copper
- Separator AGM
- Electrolyte Sulfuric acid



Terminal Dimensions



Battery Model	HR12-21W (21W to 1.67V, 15min)			
Designed Floating Life	12 Years			
Capacity(20°C)	20HR(0.26A,1.80V)	10HR(0.5A,1.80V)	5HR(0.85A,1.75V)	1HR(3.55A,1.60V)
	5.2AH	5AH	4.25AH	3.55AH
Dimensions	Length	Width	Height	Total Height
	140mm(5.51inch)	48mm(1.89inch)	101.5mm(4.0inch)	103.5mm(4.07inch)
Approx. Weight	1.7Kg (3.75 lbs)			
Internal Resistance	Full charged at 20°C: 0.021 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: 1.5A		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	24.8	15.4	11.6	7.10	3.55	1.56	0.91	0.52	0.29
1.67V	23.3	14.6	11.2	6.79	3.51	1.50	0.89	0.51	0.28
1.70V	21.3	14.1	10.9	6.18	3.40	1.40	0.87	0.51	0.27
1.75V	20.9	13.7	10.6	5.87	3.24	1.35	0.85	0.51	0.26
1.80V	18.7	13.1	9.62	5.44	3.03	1.30	0.80	0.50	0.26
1.85V	16.5	12.4	8.65	5.00	2.83	1.25	0.75	0.49	0.25

Constant power discharge ratings-watts at 20°C

F. V/Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
1.60V	43.5	27.9	21.3	12.8	6.41	2.77	1.61	1.07	0.56
1.67V	42.0	27.2	21.0	12.5	6.37	2.68	1.60	1.06	0.54
1.70V	39.6	26.9	20.8	11.7	6.25	2.56	1.58	1.05	0.53
1.75V	39.8	26.8	20.6	11.4	6.15	2.50	1.57	1.04	0.52
1.80V	36.4	26.4	19.1	10.9	5.79	2.43	1.52	1.03	0.51
1.85V	33.0	25.1	17.4	10.2	5.45	2.35	1.47	1.01	0.49

