BSB VRLA Battery

DC 6-180 6V180Ah

Deep Cycle SLA Battery

Current Automation
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Range Summary

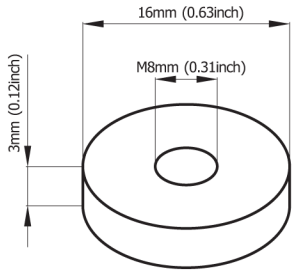
By combining up-to-date DCP additives in the positive plates and special AGM separators, BSB created an innovative range of DC batteries. The range features 70% higher cyclic life with 12 years of float life when compared with standard Duration range. The battery series is highly suited to very unreliable power applications requiring the batteries to provide extra cyclic life performance such as outdoor applications, small RE systems and electric vehicles.

Application

- Solar Energy System
- Golf Cars and Buggies
- Electric Powered Vehicles
- Wheel Chairs
- Power Tools
- Electric Powered Toys
- Control System
- Vacuum Cleaners
- Medical Equipments
- UPS

General Features

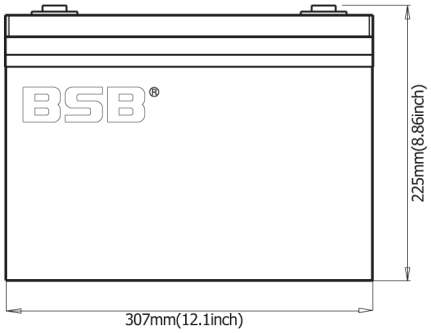
- Sealed and maintenance free operation.
- Non-Spillable construction design.
- ABS containers and covers(UL94 V0,optional).
- Safety valve installation for explosion proof.
- High quality and high reliability.
- Exceptional deep discharge recovery performance.
- Low self discharge characteristic.
-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

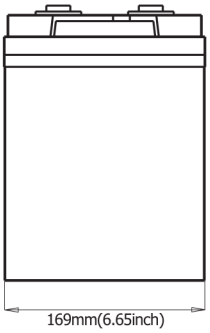


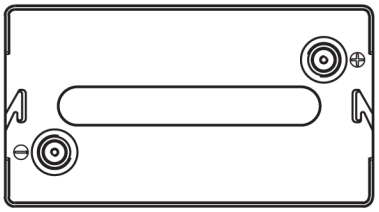
Terminal Dimensions

Construction

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







Battery Model	DC 6-180			
Designed Cycle Life	> 350 cycles @ -0.5CA to 9.6V			
Capacity(20℃)	20HR(9.44A,1.80V)	10HR(18A,1.80V)	5HR(30.7A,1.75V)	1HR(113A,1.60V)
	189Ah	180Ah	154Ah	113Ah
Dimensions	Length	Width	Height	Total Height
	307mm(12.1inch)	169mm(6.65inch)	220mm(8.66inch)	225mm(8.86inch)
Approx. Weight	25Kg (55.1 lbs)			
Internal Resistance	Full charged at 20℃: 0.0032 Ohm			
Self Discharge	3% of capacity declined per month at (20℃)			
Capacity Affected by Temp.(20HR)	40℃	20℃	0℃	-15℃
	102%	100%	85%	65%
Charge Voltage(20℃)	Cycle use		Float use	
	7.2-7.4V(-15mV/ ℃), max. Current: 45A		6.8-6.9V(-10mV/ ℃)	

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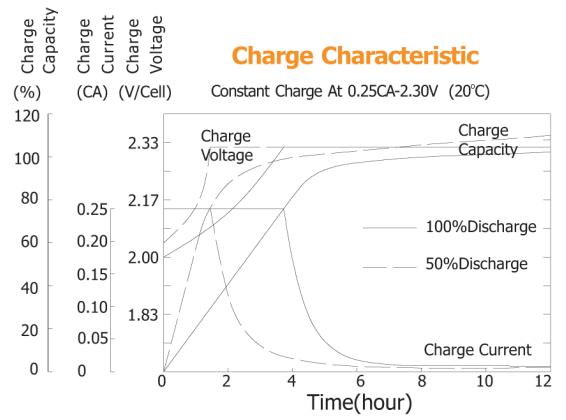
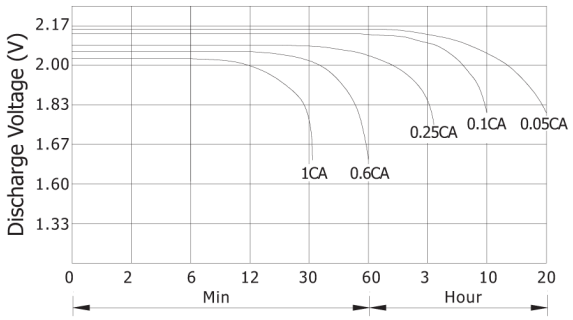
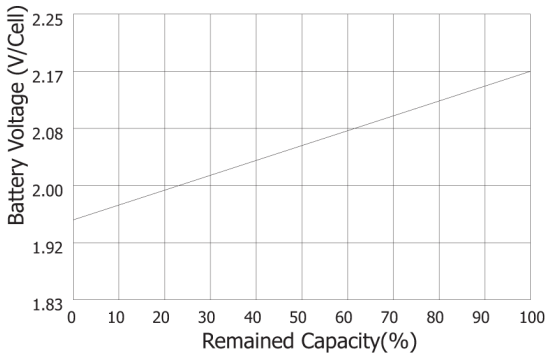
Charge Characteristic



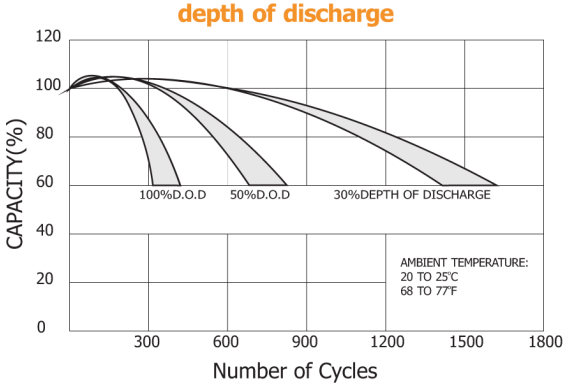
Discharge Characteristic (20°C)



Relationship of OCV and state of charge



Cycle service life in relation to depth of discharge



Constant current discharge ratings-amperes at 20°C

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
1.60V	630	432	315	189	113	49.1	31.2	19.1	9.87
1.67V	567	394	306	184	113	49.0	31.0	18.8	9.83
1.70V	538	380	295	180	112	49.0	31.0	18.7	9.83
1.75V	479	351	279	176	111	48.6	30.7	18.3	9.79
1.80V	432	326	266	171	110	48.4	30.5	18.0	9.44
1.85V	328	268	230	157	109	48.2	30.2	17.7	8.87

Constant power discharge ratings-watts at 20°C

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
1.60V	1039	716	558	356	234	94.3	65.7	38.2	19.0
1.67V	985	707	553	349	226	94.3	65.7	37.6	18.9
1.70V	920	689	544	340	220	94.3	65.7	37.3	18.9
1.75V	857	644	511	331	218	92.9	65.0	36.7	18.8
1.80V	769	599	481	322	215	91.6	63.9	36.0	18.2
1.85V	616	497	419	295	213	91.3	63.0	35.4	17.1

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