

DURATION SERIES VRLA BATTERY

By combining up-to-date DCP-II formula in the positive plates and enhanced electrolyte for VRLA, BSB created an innovative range of DC batteries. This range features deep cycling use with higher cyclic life when compared with the standard Duration range. This series is highly suited to cyclic applications such as outdoor applications, small RE systems and electric vehicles.

12 V voltage **150Ah** capacity **AGM** tech **Enhanced deep cycling**



TECHNICAL SPECIFICATIONS

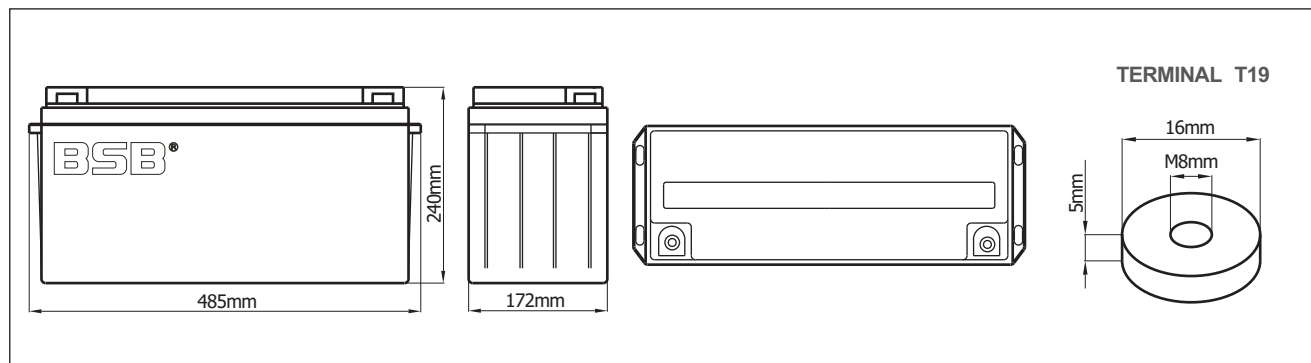
Nominal Voltage (V)	12 (6 cells per unit)
Designed Floating Life (20°C)	12 Years
Nominal Capacity (20°C)	150 Ah @ 10HR-rate (to 1.80Vpc)
Dimension (mm)	L485mm x W172mm x H240mm
Approx. Weight	44.5 kg (97.9 lbs)
Terminal Type	Female Copper Insert M8 (torque:10~12N.m)
Internal Resistance	Approx. 0.0035 Ohm (fully charged @ 20°C)
Max. Charge Current	37.5A
Max. Discharge Current (5S)	1000 A
Short Circuit Current	3400 A
Self Discharge	Approx. 3% per month @ 20°C
Ambient Temperature	Discharge: -20~60°C Charge: -20~60°C Storage: -20~45°C
Float Charge Voltage (20~25°C)	13.6-13.8V (-3mV/ cell/ °C)
Equalize and cycle Use Charge Voltage (20~25°C)	14.4-14.8V (-5mV/ cell / °C)
Container Material	ABS (UL94-V0 optional)



Complied standards

- IEC 60896-21/22
- UL1989
- JIS C8704
- GB/T19638

BATTERY DIMENSIONS

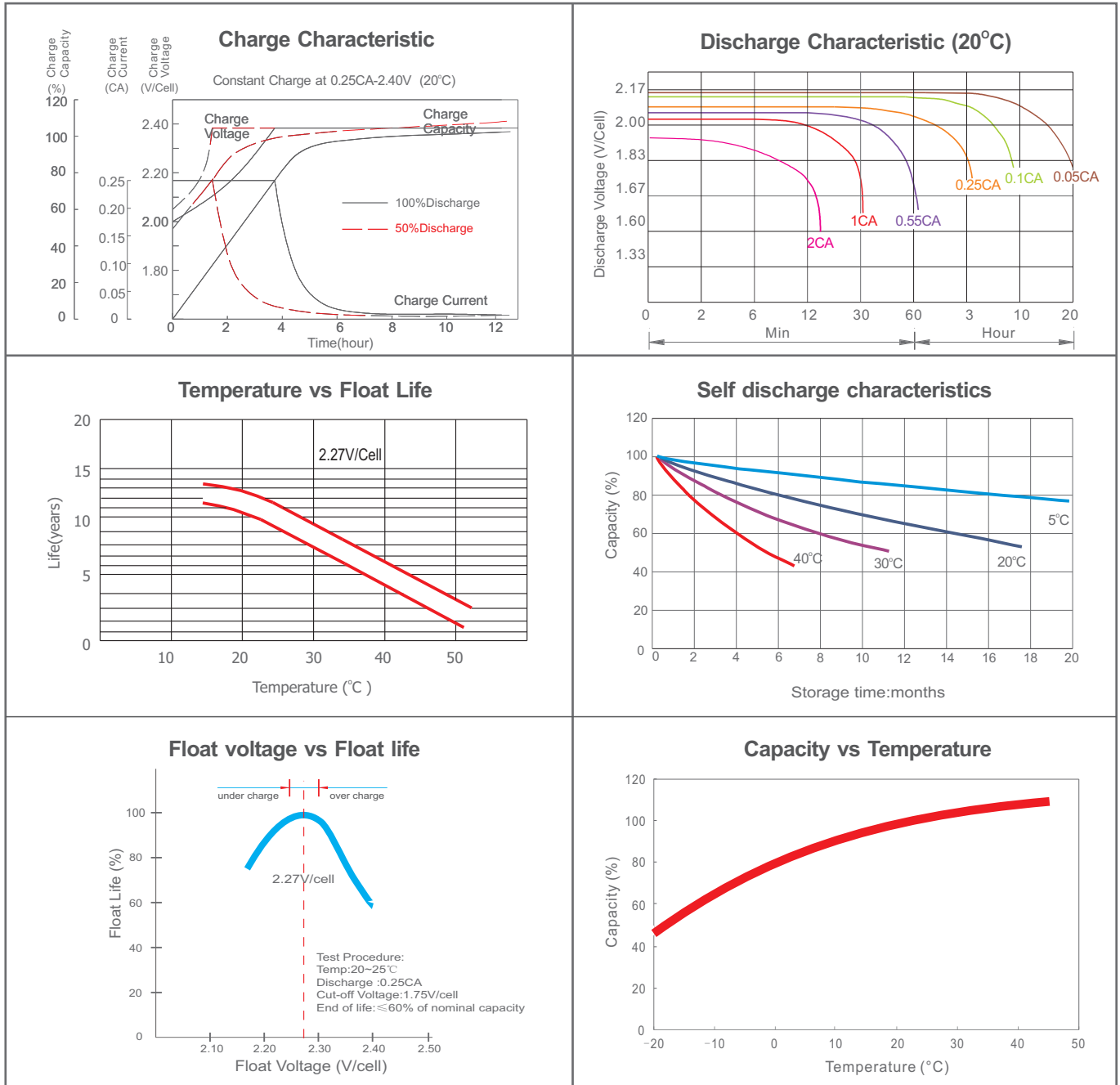


BATTERY DISCHARGE TABLE

Constant Current Discharge Characteristics: Amps (25°C)											
F.V/Tim e	10 m in	15 m in	30 m in	1 h	2 h	3 h	4 h	5 h	8 h	10 h	20 h
1.60 V	319	263	162	99.3	58.3	42.1	33.9	28.2	19.3	15.9	8.57
1.67 V	294	248	155	96.8	57.3	41.6	33.4	27.8	19.0	15.7	8.37
1.70 V	267	234	149	94.5	56.5	41.1	33.1	27.6	18.8	15.5	8.18
1.75 V	248	218	144	92.6	55.6	40.4	32.7	27.3	18.5	15.3	8.03
1.80 V	225	203	138	89.5	54.4	39.7	32.0	26.6	18.1	15.0	7.87
1.85 V	203	185	130	85.7	52.2	38.4	31.1	26.0	17.7	14.6	7.69

Constant Power Discharge Characteristics: W/cell (25°C)											
F.V/Tim e	10 m in	15 m in	30 m in	1 h	2 h	3 h	4 h	5 h	8 h	10 h	20 h
1.60 V	573	480	300	185	109	79.4	64.2	53.7	37.0	30.7	16.6
1.67 V	533	456	288	181	108	79.0	63.8	53.5	36.8	30.5	16.4
1.70 V	490	435	279	178	108	78.6	63.6	53.3	36.6	30.4	16.1
1.75 V	460	408	272	176	107	78.1	63.4	53.1	36.4	30.2	15.9
1.80 V	423	384	262	172	105	77.2	62.5	52.2	35.8	29.8	15.7
1.85 V	386	353	250	166	102	75.4	61.2	51.4	35.3	29.2	15.5

CHARACTERISTICS



FINAL VOLTAGE SETTINGS RECOMMENDED ACCORDING TO THE DISCHARGE CURRENT

Discharge Current I (A)	$I \leq 0.08C$	$0.08C \leq I < 0.2C$	$0.2C \leq I < 0.6C$	$0.6C \leq I < 1.0C$	$I \geq 1.0C$
Final of Voltage	$\geq 1.85V_{pc}$	$\geq 1.80V_{pc}$	$\geq 1.75V_{pc}$	$\geq 1.70V_{pc}$	$\geq 1.60V_{pc}$

HEADQUARTERS AND SUBSIDIARIES

BSB Power Company Limited (HQ)
 BSB Power Europe (France)
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