

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

200Ah
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)	200 Ah @ 10HR-rate (to 1.80Vpc)
Dimension (mm)	L522mm x W238mm x H223mm
Approx. Weight	61.5 kg (135.3 lbs)
Terminal Type	Female Copper Insert M8 (torque:10~12N.m)
Internal Resistance	Approx. 0.003 Ohm (fully charged @ 20°C)
Max. Charge Current	50 A
Max. Discharge Current (5S)	1000 A
Short Circuit Current	4000 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)



ISO9001



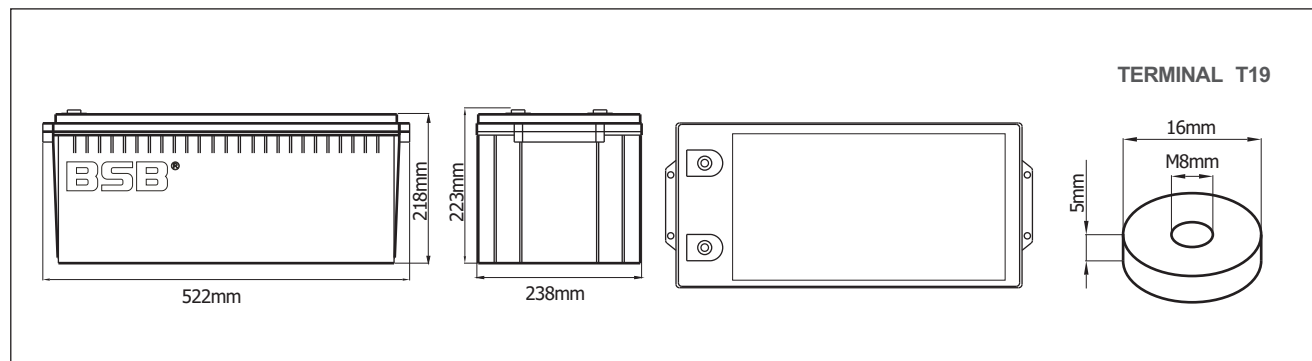
ISO14001



Complied standards

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

BATTERY DIMENSIONS

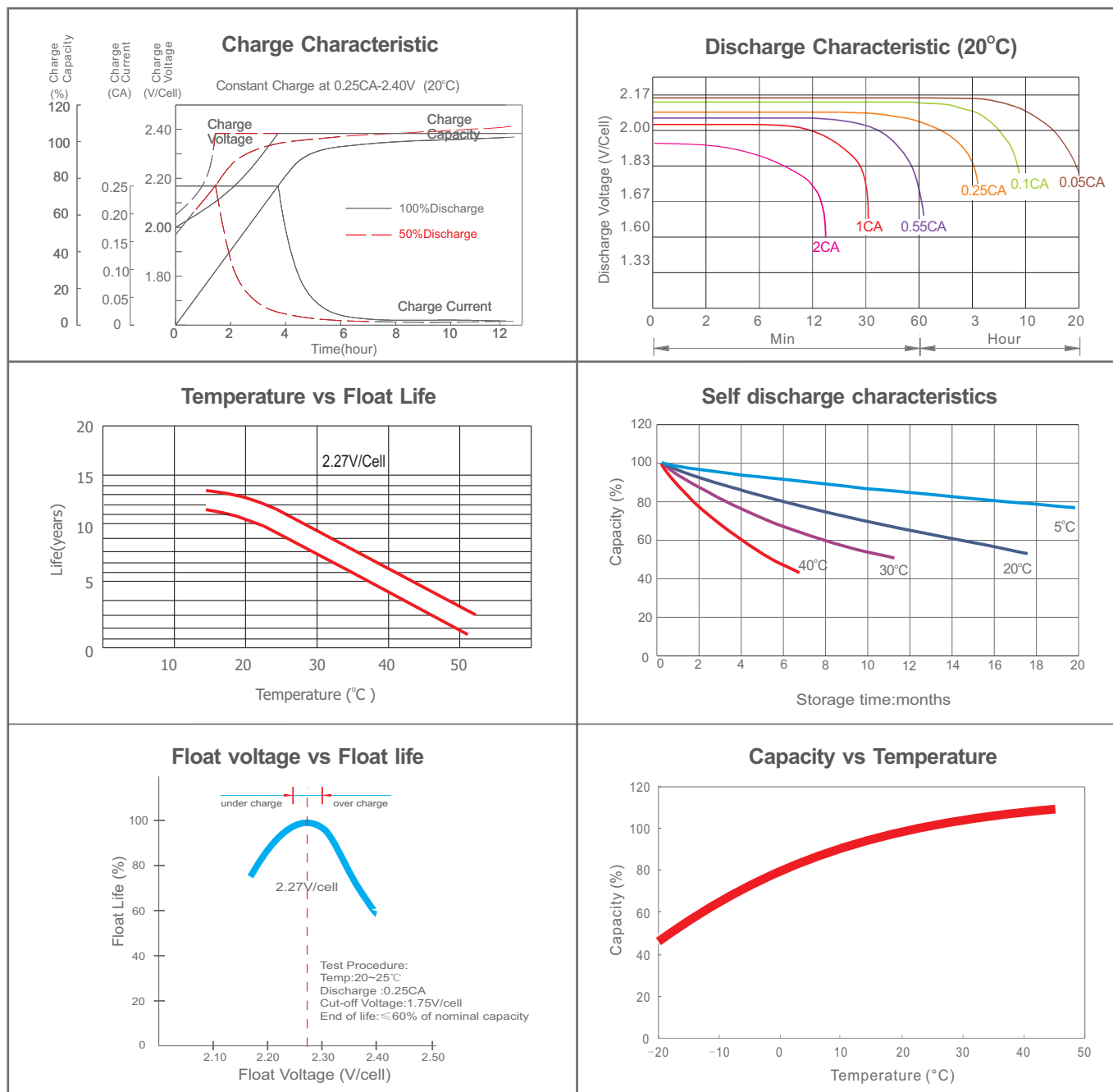


BATTERY DISCHARGE TABLE

Constant Current Discharge Characteristics: Amps (25°C)											
F.V/Time	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	384	317	195	131	77.7	56.1	45.2	37.6	25.7	21.2	11.4
1.67 V	353	298	186	128	76.4	55.4	44.6	37.1	25.4	20.9	11.2
1.70 V	321	282	179	125	75.4	54.8	44.1	36.8	25.1	20.7	10.9
1.75 V	298	262	173	122	74.1	53.9	43.6	36.4	24.7	20.4	10.7
1.80 V	271	244	166	118	72.5	52.9	42.6	35.5	24.1	20.0	10.5
1.85 V	244	222	156	113	69.7	51.2	41.4	34.6	23.6	19.5	10.3

Constant Power Discharge Characteristics: W/cell (25°C)											
F.V/Time	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	689	578	361	244	131	95.3	77.1	64.5	44.5	36.9	19.9
1.67 V	642	548	346	240	130	94.8	76.5	64.1	44.1	36.6	19.6
1.70 V	589	523	336	236	129	94.3	76.3	64.0	43.9	36.4	19.3
1.75 V	554	491	327	233	128	93.7	76.1	63.7	43.7	36.2	19.1
1.80 V	509	462	316	227	126	92.7	75.0	62.7	43.0	35.8	18.9
1.85 V	464	425	301	219	123	90.4	73.5	61.7	42.3	35.0	18.5

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)
 BSB Power Malaysia Sdn. Bhd
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 BSB Power (Thailand) Co., Ltd
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