

DURATION SERIES VRLA BATTERY

By combining up-to-date DCP-II formula in the positive plates and enhanced electrolyte for VRLA, bosfa 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.

6 V
voltage

200Ah
capacity

AGM
tech

Enhanced
deep cycling

TECHNICAL SPECIFICATIONS

Nominal Voltage (V)	6 (3 cells per unit)
Designed Floating Life (20°C)	12 Years
Nominal Capacity (20°C)	200 Ah @ 10HR-rate (to 1.80Vpc)
Dimension (mm)	L321mm x W176mm x H231mm
Approx. Weight	29.0 kg (64.0 lbs)
Terminal Type	Female Copper Insert M8 (torque:10~12N.m)
Internal Resistance	Approx. 0.0031 Ohm (fully charged @ 20°C)
Max. Charge Current	50 A
Max. Discharge Current (5S)	1000 A
Short Circuit Current	1900 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)	6.8-6.9V (-3mV/ cell / °C)
Equalize and cycle Use Charge Voltage (20~25°C)	7.2-7.4V (-5mV/ cell / °C)
Container Material	ABS (UL94-V0 optional)



ISO9001



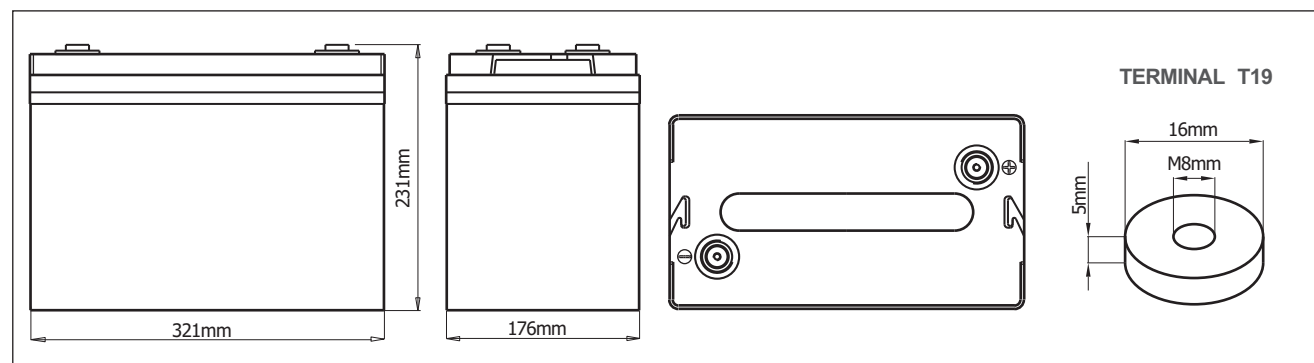
ISO14001



Complied standards

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

BATTERY DIMENSIONS

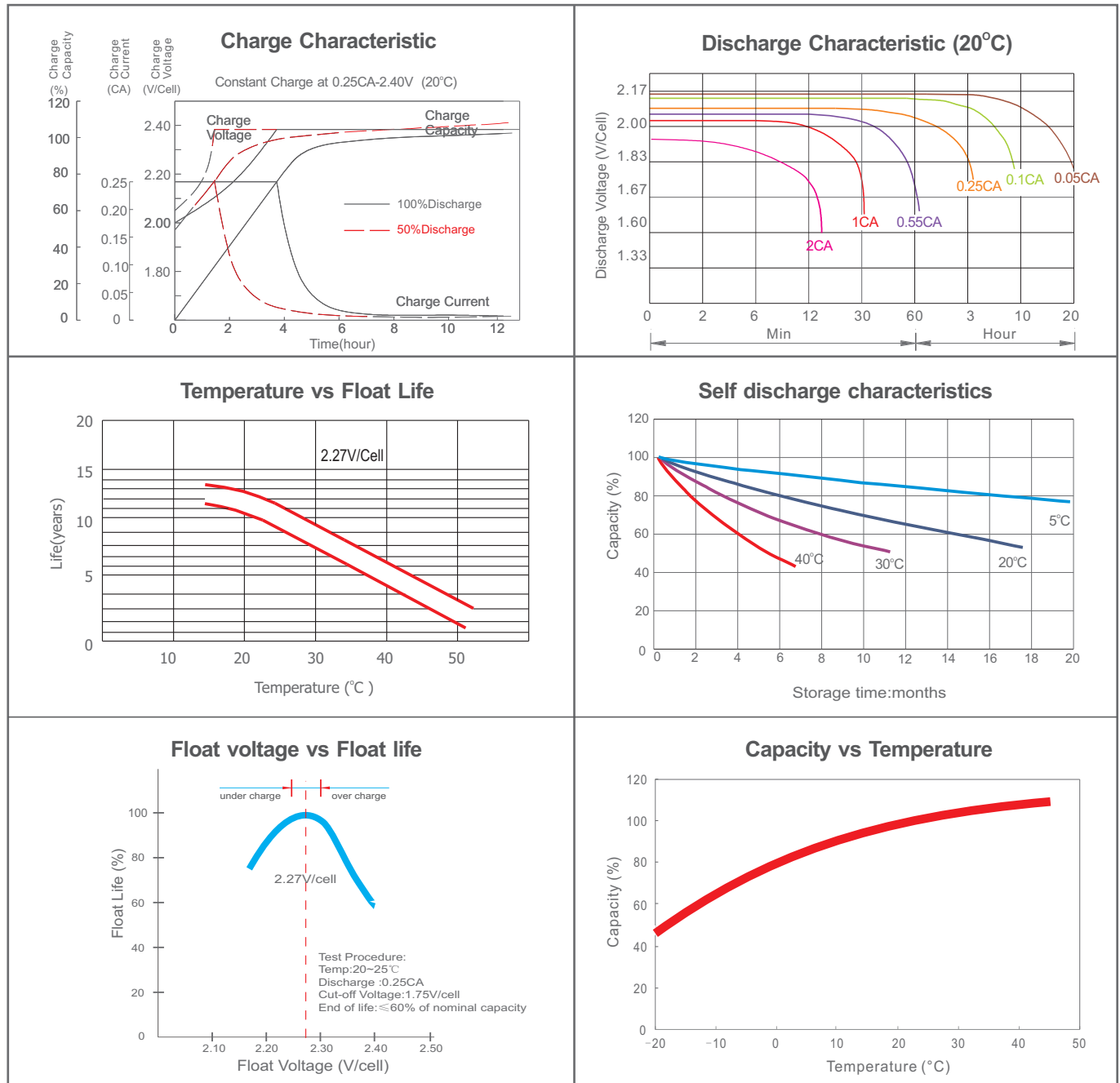


BATTERY DISCHARGE TABLE

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	327	212	131	77.7	56.7	45.2	37.6	25.7	21.2	11.4
1.67 V	353	308	202	128	76.4	56.0	44.6	37.1	25.4	20.9	11.2
1.70 V	321	291	195	125	75.4	55.3	44.1	36.8	25.1	20.7	10.9
1.75 V	298	270	188	122	74.1	54.5	43.6	36.4	24.7	20.4	10.7
1.80 V	271	252	180	118	72.5	53.4	42.6	35.5	24.1	20.0	10.5
1.85 V	244	230	170	113	69.7	51.7	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	596	392	244	131	95.3	77.1	64.5	44.5	36.9	19.9
1.67 V	642	566	376	240	130	94.8	76.5	64.1	44.1	36.6	19.6
1.70 V	589	540	365	236	129	94.3	76.3	64.0	43.9	36.4	19.3
1.75 V	554	506	355	233	128	93.7	76.1	63.7	43.7	36.2	19.1
1.80 V	509	477	343	227	126	92.7	75.0	62.7	43.0	35.8	18.9
1.85 V	464	439	327	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	$\geq 1.85V_{pc}$	$\geq 1.80V_{pc}$	$\geq 1.75V_{pc}$	$\geq 1.70V_{pc}$	$\geq 1.60V_{pc}$