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.

12 V voltage | 250Ah capacity | AGM tech | Enhanced deep cycling

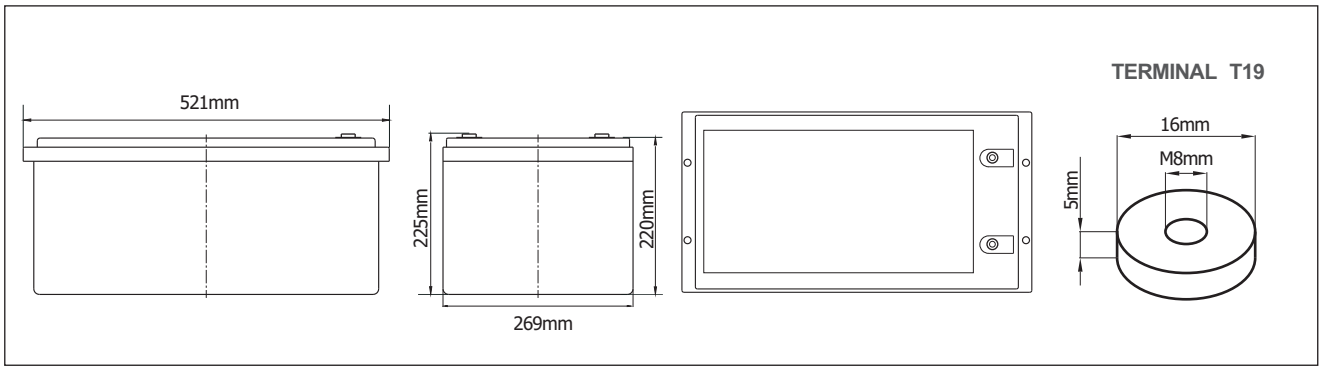
TECHNICAL SPECIFICATIONS

Nominal Voltage (V)	12 (6 cells per unit)
Designed Floating Life (20°C)	12 Years
Nominal Capacity (20°C)	250 Ah @ 10HR-rate (to 1.80Vpc)
Dimension (mm)	L521mm x W269mm x H225mm
Approx. Weight	70.0 kg (154.0 lbs)
Terminal Type	Female Copper Insert M8 (torque:10~12N.m)
Internal Resistance	Approx. 0.0026 Ohm (fully charged @ 20°C)
Max. Charge Current	62.5 A
Max. Discharge Current (5S)	1000 A
Short Circuit Current	4600 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
- JIS C8704
- GB/T19638

BATTERY DIMENSIONS



BATTERY DISCHARGE TABLE

Constant Current Discharge Characteristics: Amps (25°C)

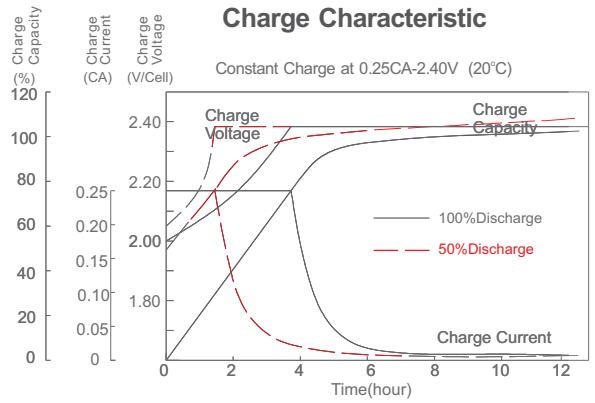
F.V/Time	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	479	409	265	164	97.1	70.1	56.5	47.1	32.1	26.5	14.3
1.67V	442	385	253	160	95.5	69.3	55.7	46.4	31.7	26.2	14.0
1.70V	401	364	244	156	94.2	68.5	55.2	46.0	31.3	25.9	13.6
1.75V	372	338	235	153	92.6	67.4	54.6	45.4	30.9	25.5	13.4
1.80V	339	315	225	148	90.6	66.1	53.3	44.4	30.2	25.0	13.1
1.85V	305	287	212	141	87.1	63.9	51.8	43.3	29.5	24.4	12.8

Constant Power Discharge Characteristics: W/cell (25°C)

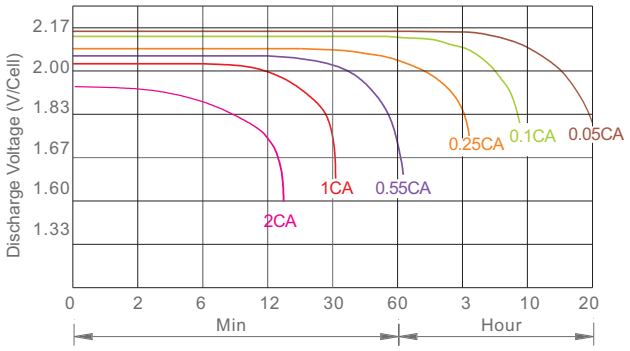
F.V/Time	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	862	745	489	306	182	132	107	89.6	61.7	51.2	27.7
1.67V	802	707	470	299	180	132	106	89.1	61.3	50.9	27.3
1.70V	737	674	456	294	179	131	105	88.9	61.0	50.6	26.9
1.75V	692	633	444	291	178	130	104	88.5	60.6	50.3	26.5
1.80V	636	596	428	284	176	129	102	87.1	59.7	49.7	26.2
1.85V	580	548	408	274	170	126	100	85.7	58.8	48.7	25.8

CHARACTERISTICS

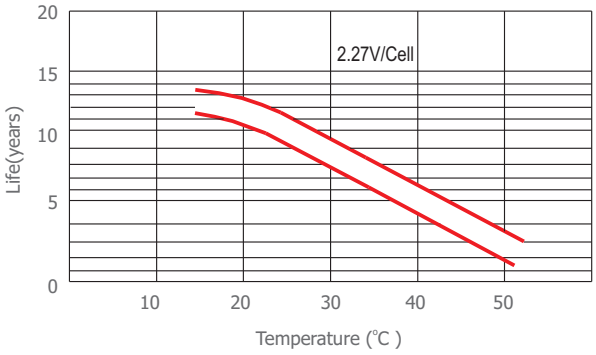
Charge Characteristic



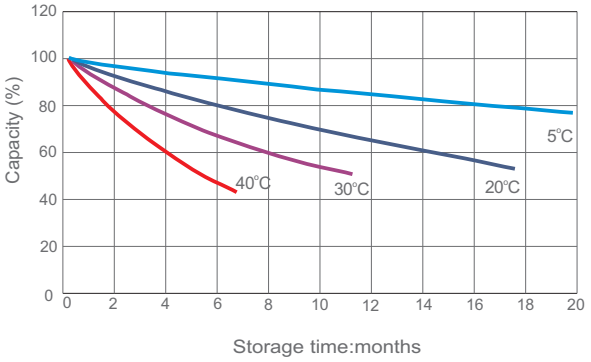
Discharge Characteristic (20°C)



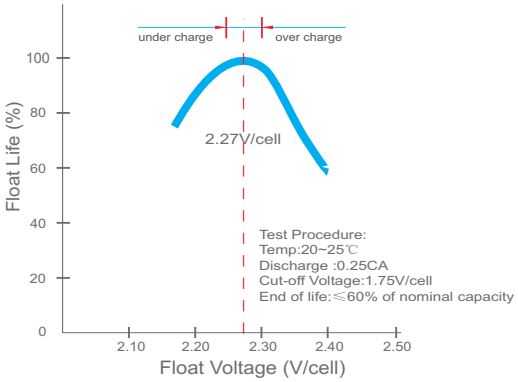
Temperature vs Float Life



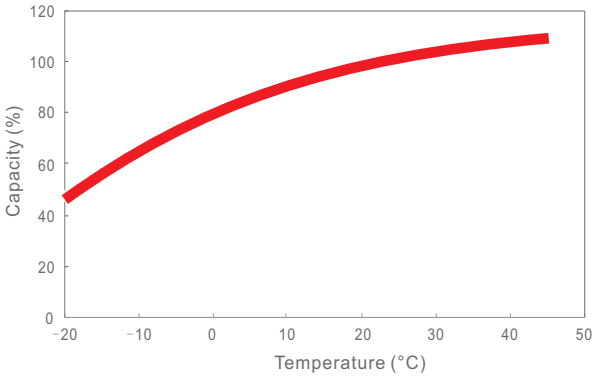
Self discharge characteristics



Float voltage vs Float life



Capacity vs Temperature



FINAL VOLTAGE SETTINGS RECOMMENDED ACCORDING TO THE DISCHARGE CURRENT

Discharge Current I (A)	I ≤0.08C	0.08C≤I<0.2C	0.2C≤I<0.6C	0.6C≤I<1.0C	I≥1.0C
Final of Voltage	≥1.85Vpc	≥1.80Vpc	≥1.75Vpc	≥1.70Vpc	≥1.60Vpc