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 | 150Ah capacity | AGM tech | Enhanced deep cycling

TECHNICAL SPECIFICATIONS

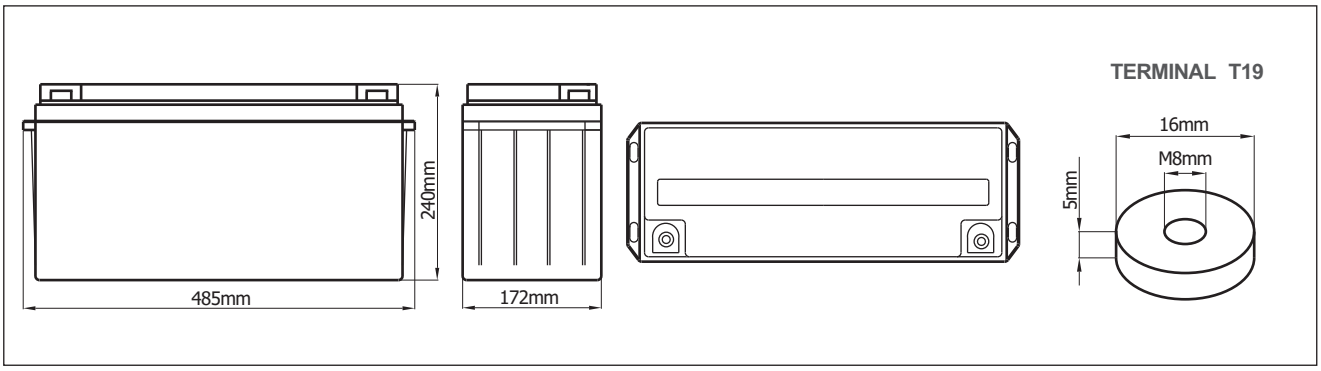
Nominal Voltage (V)	12 (6 cells per unit)
Designed Floating Life (20°C)	12 Years
Nominal Capacity (20°C)	150 Ah @ 10HR-rate (to 1.80Vpc)
Dimension (mm)	L485mm x W172mm x H240mm
Approx. Weight	41.0 kg (90.2 lbs)
Terminal Type	Female Copper Insert M8 (torque:10~12N.m)
Internal Resistance	Approx. 0.0035 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)

ISO9001 ISO14001

CE

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	319	263	162	99.3	58.3	42.1	33.9	28.2	19.3	15.9	8.57
1.67V	294	248	155	96.8	57.3	41.6	33.4	27.8	19.0	15.7	8.37
1.70V	267	234	149	94.5	56.5	41.1	33.1	27.6	18.8	15.5	8.18
1.75V	248	218	144	92.6	55.6	40.4	32.7	27.3	18.5	15.3	8.03
1.80V	225	203	138	89.5	54.4	39.7	32.0	26.6	18.1	15.0	7.87
1.85V	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/Time	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	573	480	300	185	109	79.4	64.2	53.7	37.0	30.7	16.6
1.67V	533	456	288	181	108	79.0	63.8	53.5	36.8	30.5	16.4
1.70V	490	435	279	178	108	78.6	63.6	53.3	36.6	30.4	16.1
1.75V	460	408	272	176	107	78.1	63.4	53.1	36.4	30.2	15.9
1.80V	423	384	262	172	105	77.2	62.5	52.2	35.8	29.8	15.7
1.85V	386	353	250	166	102	75.4	61.2	51.4	35.3	29.2	15.5

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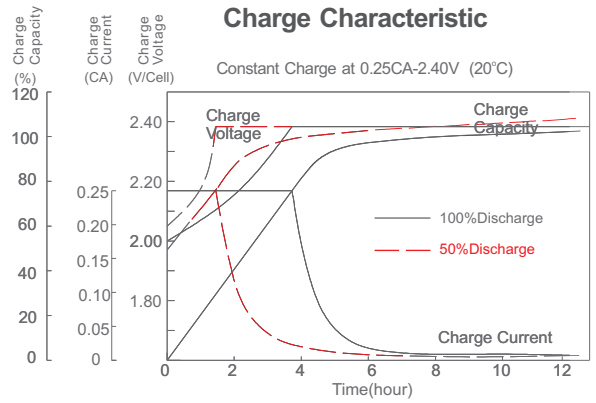
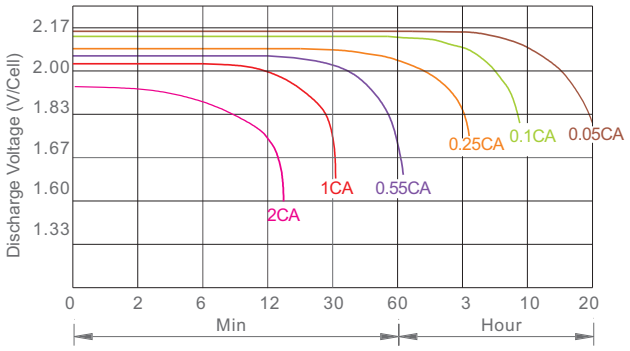
CHARACTERISTICS

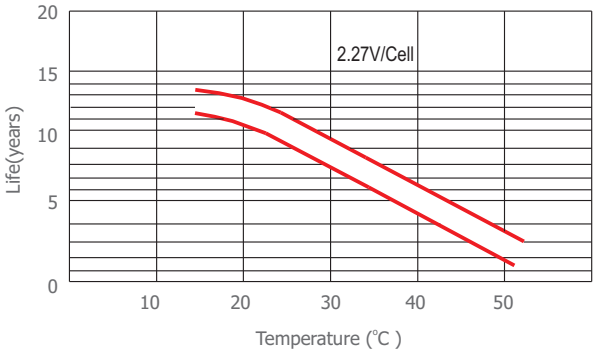
Charge Characteristic



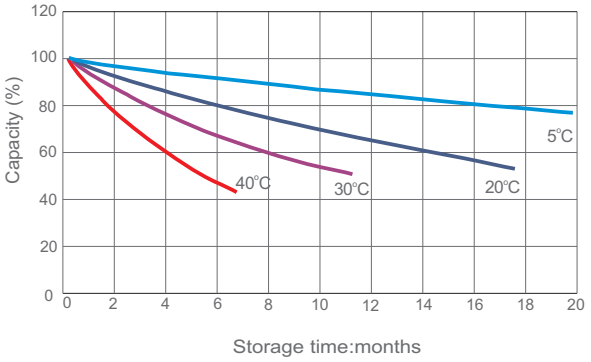
Discharge Characteristic (20°C)



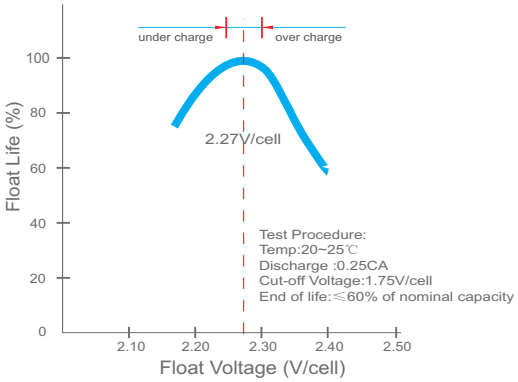
Temperature vs Float Life



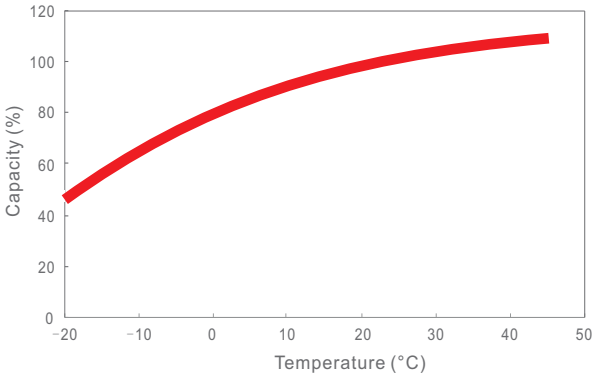
Self discharge characteristics



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

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