

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

150Ah
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)	150 Ah @ 10HR-rate (to 1.80Vpc)
Dimension (mm)	L260mm x W180mm x H250mm
Approx. Weight	21.5 kg (47.4 lbs)
Terminal Type	Female Copper Insert M8 (torque:10~12N.m)
Internal Resistance	Approx. 0.0033 Ohm (fully charged @ 20°C)
Max. Charge Current	37.5A
Max. Discharge Current (5S)	1000 A
Short Circuit Current	1800 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



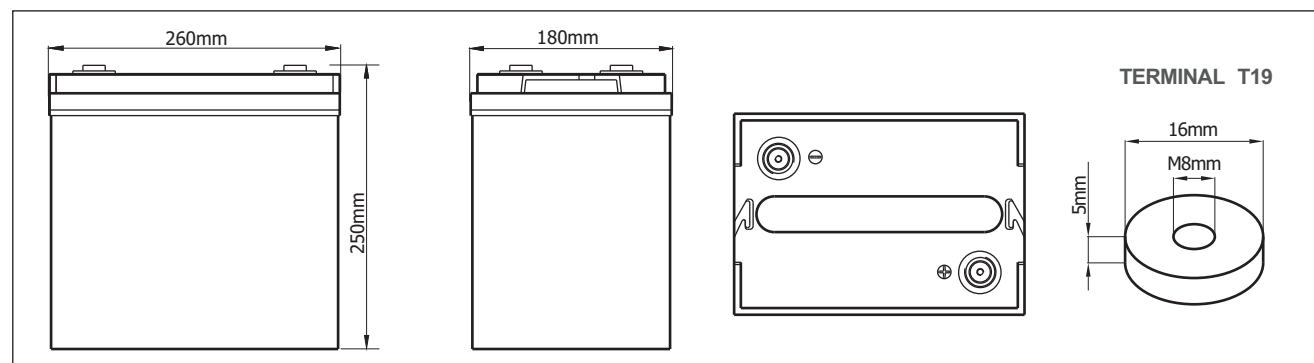
ISO14001



Complied standards

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

BATTERY DIMENSIONS

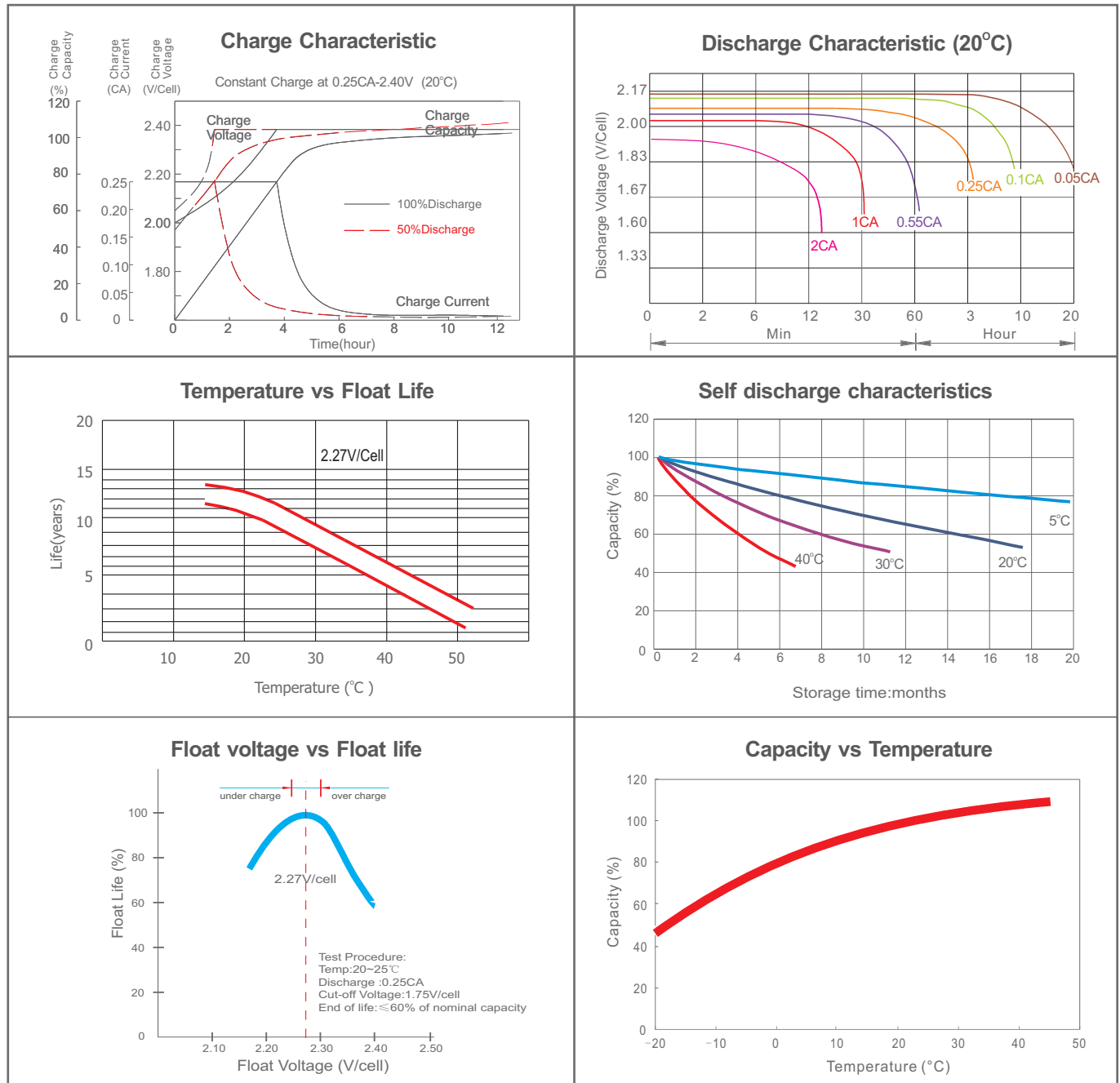


BATTERY DISCHARGE TABLE

Constant Current Discharge Characteristics: Amps (25°C)											
F.V/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
1.60V	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/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
1.60V	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

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	$\geq 1.85V_{pc}$	$\geq 1.80V_{pc}$	$\geq 1.75V_{pc}$	$\geq 1.70V_{pc}$	$\geq 1.60V_{pc}$