

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.

TECHNICAL SPECIFICATIONS

Nominal Voltage (V)	12 (6 cells per unit)
Designed Floating Life (20°C)	12 Years
Nominal Capacity (20°C)	135 Ah @ 10HR-rate (to 1.80Vpc)
Dimension (mm)	L341mm x W173mm x H288mm
Approx. Weight	40.3 kg (88.7 lbs)
Terminal Type	Female Copper Insert M8 (torque:10~12N.m)
Internal Resistance	Approx. 0.0038 Ohm (fully charged @ 20°C)
Max. Charge Current	33.75A
Max. Discharge Current (5S)	1000 A
Short Circuit Current	3150 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)

12 V voltage 135Ah capacity AGM tech Enhanced deep cycling



ISO9001



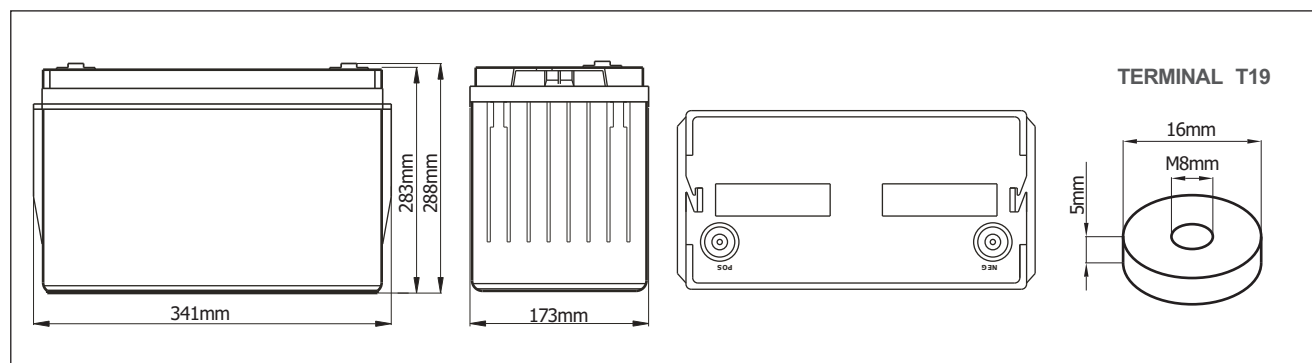
ISO14001



Complied standards

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

BATTERY DIMENSIONS

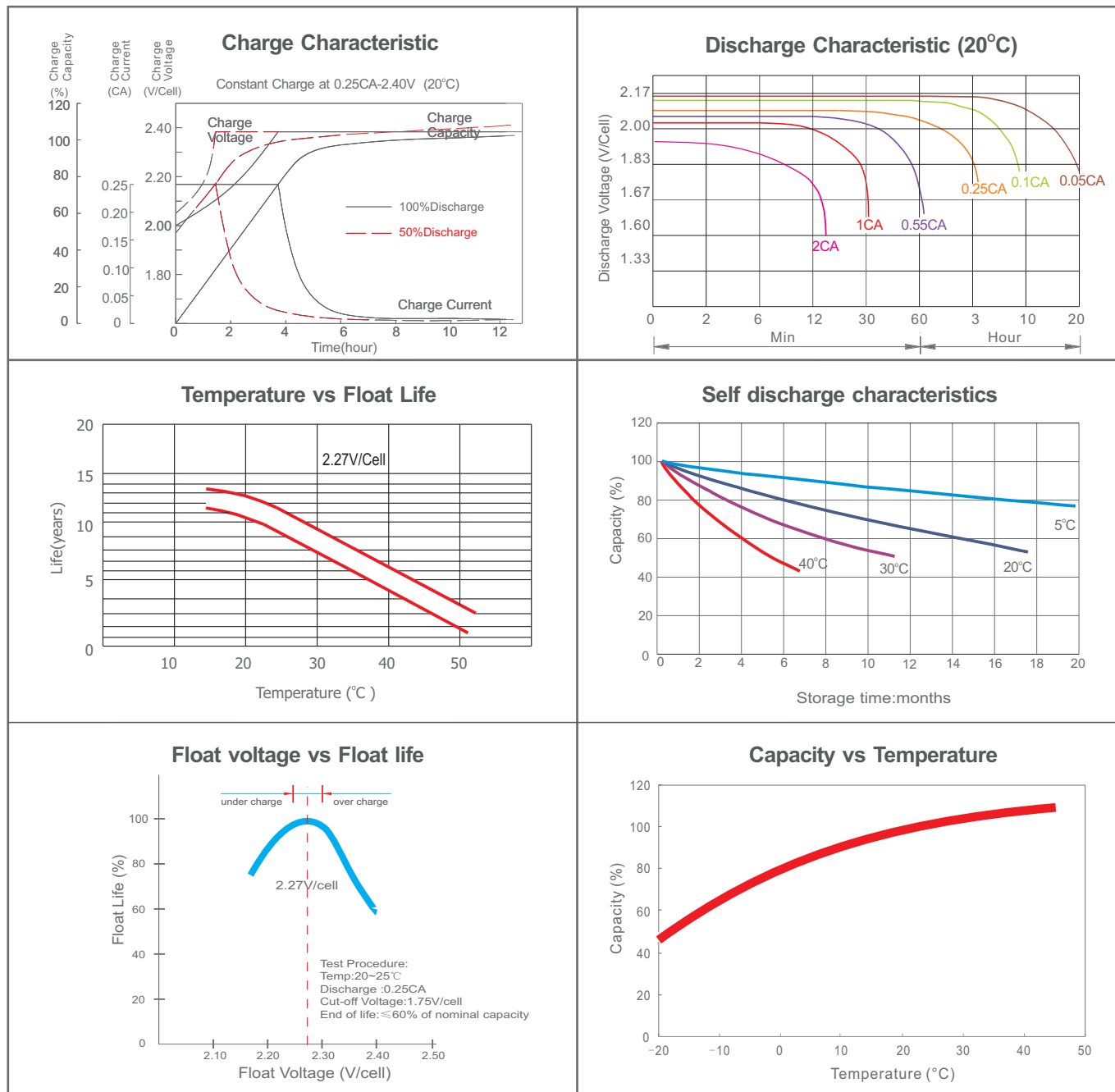


BATTERY DISCHARGE TABLE

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
1.60 V	287	237	146	89.4	52.5	37.9	30.5	25.4	17.3	14.3	7.71
1.67 V	264	223	139	87.1	51.6	37.4	30.1	25.1	17.1	14.1	7.53
1.70 V	240	211	134	85.1	50.9	37.0	29.8	24.9	16.9	14.0	7.36
1.75 V	223	196	130	83.3	50.0	36.4	29.5	24.5	16.7	13.8	7.22
1.80 V	203	183	124	80.6	48.9	35.7	28.8	23.9	16.3	13.5	7.08
1.85 V	183	166	117	77.1	47.0	34.5	27.9	23.4	15.9	13.1	6.92

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
1.60 V	516	432	270	167	98.5	71.5	57.8	48.4	33.3	27.6	15.0
1.67 V	480	410	259	163	97.4	71.1	57.4	48.1	33.1	27.5	14.7
1.70 V	441	391	251	161	96.9	70.8	57.3	48.0	32.9	27.3	14.5
1.75 V	414	367	245	159	96.0	70.2	57.1	47.8	32.7	27.1	14.3
1.80 V	381	345	236	155	94.8	69.5	56.3	47.0	32.2	26.8	14.2
1.85 V	347	318	225	150	92.0	67.8	55.1	46.3	31.7	26.3	13.9

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