

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

9.0Ah
capacity

AGM
tech

Enhanced
deep cycling



TECHNICAL SPECIFICATIONS

Nominal Voltage (V)	12 (6 cells per unit)
Designed Floating Life (20°C)	5 Years
Nominal Capacity (25°C)	9 Ah @ 20HR-rate (to 1.75Vpc)
Dimension (mm)	L151mm x W65mm x H117mm
Approx. Weight	2.5 kg (5.51 lbs)
Terminal Type	Fasten Tab F1
Internal Resistance	Approx. 0.017 Ohm (fully charged @ 25°C)
Max. Charge Current	2.7 A
Max. Discharge Current (5S)	135 A
Short Circuit Current	720 A
Self Discharge	Approx. 3% per month @ 20°C
Ambient Temperature	Discharge: -15~55°C Charge: -15~45°C Storage: -15~45°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



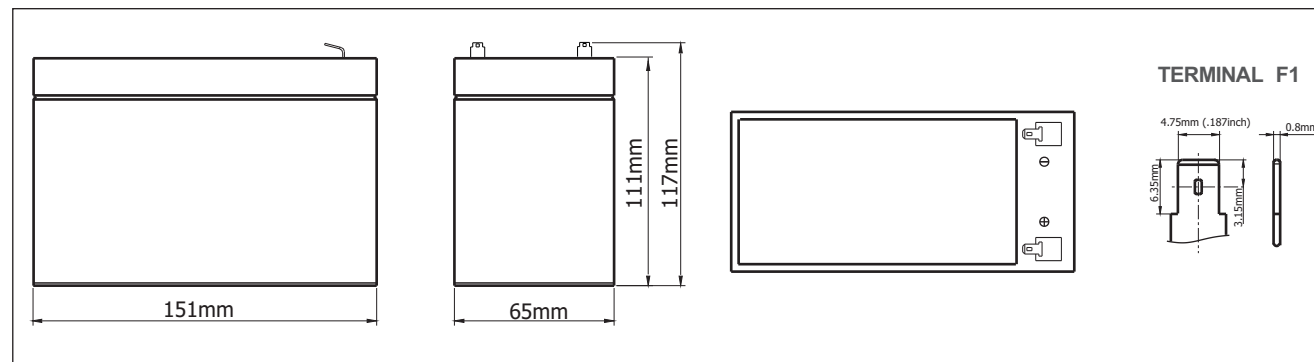
ISO14001



Complied standards

- IEC 61056
- JIS C8707
- GB/T19639

BATTERY DIMENSIONS

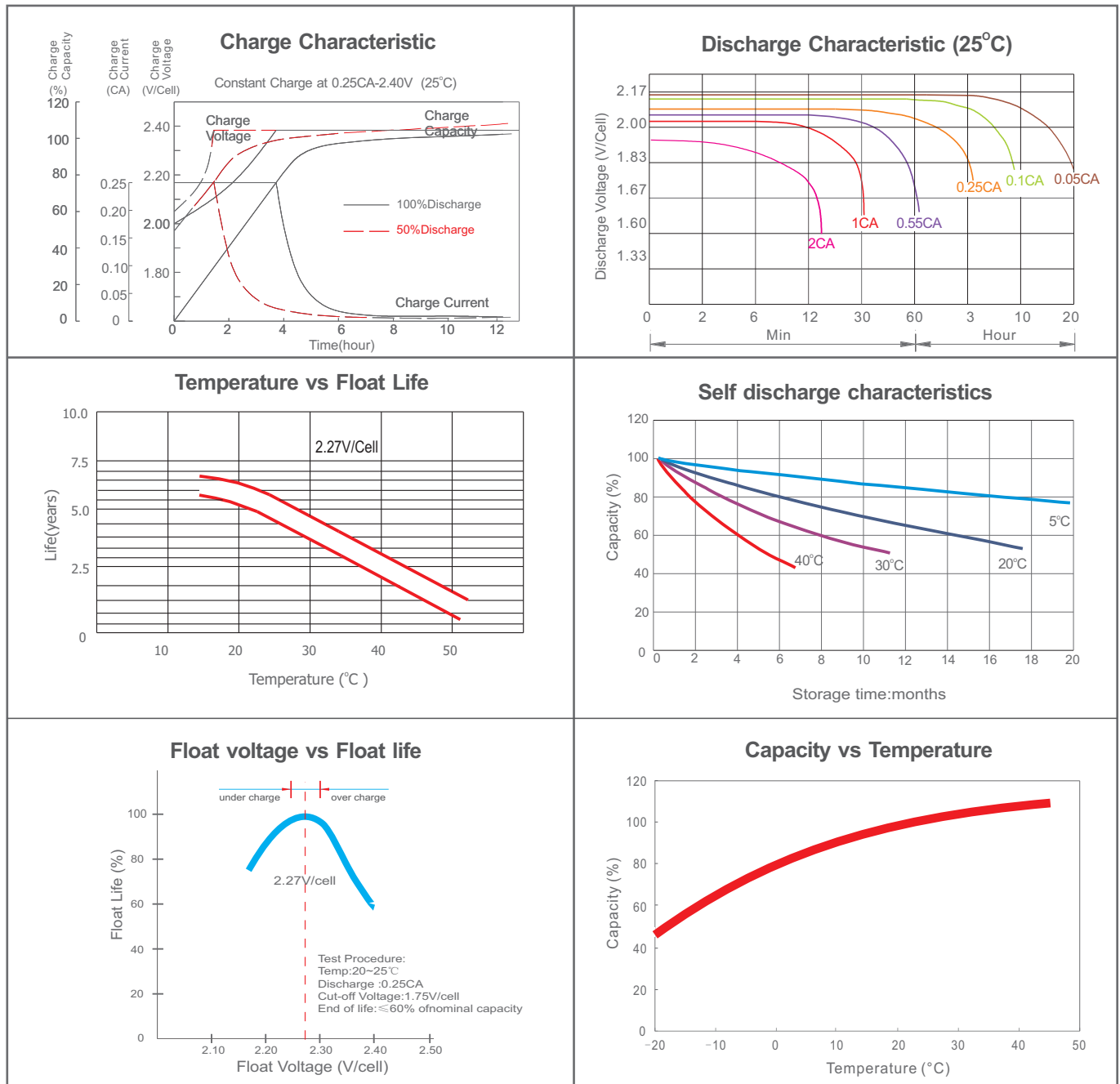


BATTERY DISCHARGE TABLE

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
1.60V	21.5	16.4	9.8	5.80	3.47	2.48	1.96	1.62	1.09	0.89	0.48
1.67V	20.7	15.8	9.5	5.73	3.43	2.45	1.93	1.60	1.08	0.88	0.47
1.70V	19.8	15.4	9.4	5.64	3.40	2.43	1.91	1.58	1.07	0.87	0.46
1.75V	19.0	15.0	9.1	5.55	3.35	2.41	1.89	1.56	1.06	0.86	0.45
1.80V	17.9	14.7	9.0	5.43	3.30	2.37	1.86	1.54	1.04	0.85	0.44
1.85V	16.9	14.3	8.8	5.35	3.26	2.34	1.84	1.52	1.03	0.84	0.43

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
1.60V	38.6	29.9	18.0	10.8	6.53	4.68	3.72	3.08	2.10	1.72	0.93
1.67V	37.7	29.1	17.7	10.7	6.49	4.66	3.68	3.06	2.09	1.71	0.92
1.70V	36.4	28.6	17.5	10.6	6.47	4.65	3.67	3.05	2.08	1.70	0.91
1.75V	35.2	28.2	17.3	10.5	6.44	4.64	3.66	3.03	2.07	1.69	0.89
1.80V	33.6	27.8	17.1	10.4	6.40	4.62	3.64	3.02	2.06	1.68	0.88
1.85V	32.1	27.3	16.9	10.3	6.37	4.60	3.62	3.00	2.05	1.66	0.86

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	$\geq 1.85V_{pc}$	$\geq 1.80V_{pc}$	$\geq 1.75V_{pc}$	$\geq 1.7V_{pc}$	$\geq 1.6V_{pc}$