

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 **12Ah** capacity **AGM** tech **Enhanced deep cycling**



TECHNICAL SPECIFICATIONS

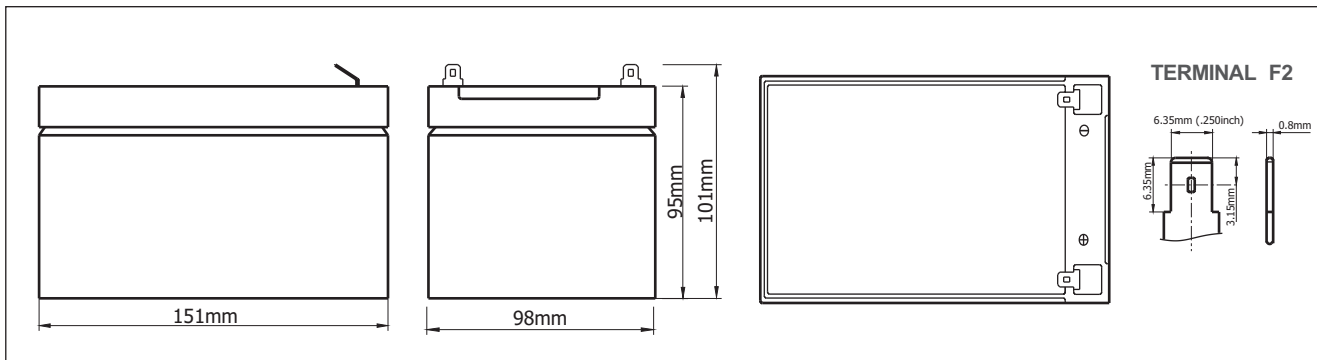
Nominal Voltage (V)	12 (6 cells per unit)
Designed Floating Life (20°C)	5 Years
Nominal Capacity (25°C)	12 Ah @ 20HR-rate (to 1.75Vpc)
Dimension (mm)	L151mm x W98mm x H101mm
Approx. Weight	3.5 kg (7.72 lbs)
Terminal Type	Fasten Tab F2
Internal Resistance	Approx. 0.019 Ohm (fully charged @ 25°C)
Max. Charge Current	3.6 A
Max. Discharge Current (5S)	180 A
Short Circuit Current	630 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)



Complied standards

- IEC 61056
- JIS C8707
- GB/T19639

BATTERY DIMENSIONS

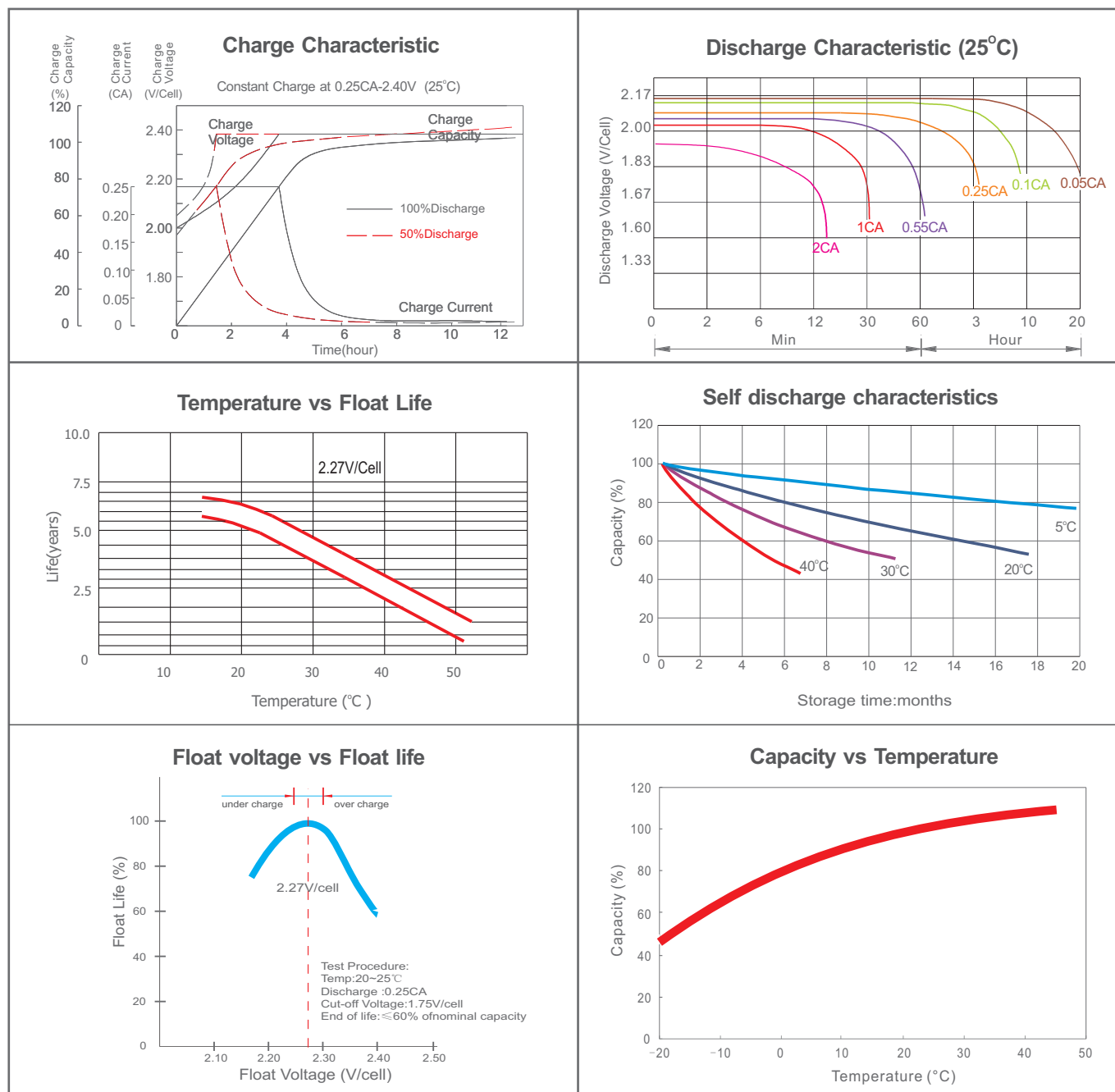


BATTERY DISCHARGE TABLE

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	28.6	21.8	13.0	7.74	4.63	3.31	2.61	2.16	1.45	1.19	0.64
1.67V	27.6	21.1	12.7	7.64	4.58	3.27	2.57	2.13	1.44	1.17	0.63
1.70V	26.5	20.6	12.5	7.53	4.53	3.24	2.54	2.10	1.42	1.16	0.61
1.75V	25.3	20.0	12.2	7.40	4.47	3.21	2.52	2.08	1.41	1.15	0.60
1.80V	23.9	19.6	12.0	7.24	4.41	3.16	2.49	2.05	1.39	1.13	0.59
1.85V	22.5	19.1	11.7	7.14	4.34	3.12	2.46	2.03	1.37	1.12	0.57

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	51.5	39.8	24.0	14.4	8.70	6.24	4.96	4.11	2.79	2.30	1.23
1.67V	50.2	38.8	23.6	14.3	8.65	6.22	4.91	4.09	2.78	2.28	1.22
1.70V	48.6	38.2	23.4	14.2	8.63	6.21	4.89	4.07	2.77	2.27	1.21
1.75V	46.9	37.6	23.0	14.1	8.59	6.20	4.88	4.04	2.76	2.26	1.19
1.80V	44.9	37.0	22.8	13.9	8.54	6.16	4.86	4.03	2.75	2.25	1.17
1.85V	42.8	36.5	22.6	13.8	8.49	6.14	4.85	4.02	2.73	2.24	1.15

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