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 | 24Ah capacity | AGM tech | Enhanced deep cycling

TECHNICAL SPECIFICATIONS

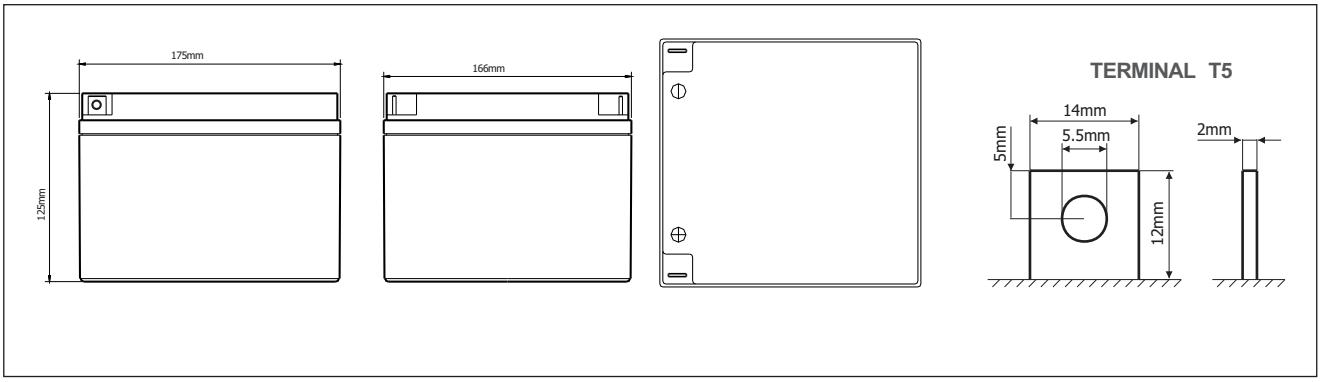
Nominal Voltage (V)	12 (6 cells per unit)
Designed Floating Life (20°C)	5 Years
Nominal Capacity (25°C)	24 Ah @ 20HR-rate (to 1.75Vpc)
Dimension (mm)	L175mm x W166mm x H125mm
Approx. Weight	7.5 kg (16.5 lbs)
Terminal Type	Terminal T5
Internal Resistance	Approx. 0.012 Ohm (fully charged @ 25°C)
Max. Charge Current	6 A
Max. Discharge Current (5S)	360 A
Short Circuit Current	1000 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

CE

Complied standards
- IEC 61056
- JIS C8707
- GB/T19639

BATTERY DIMENSIONS



BATTERY DISCHARGE TABLE

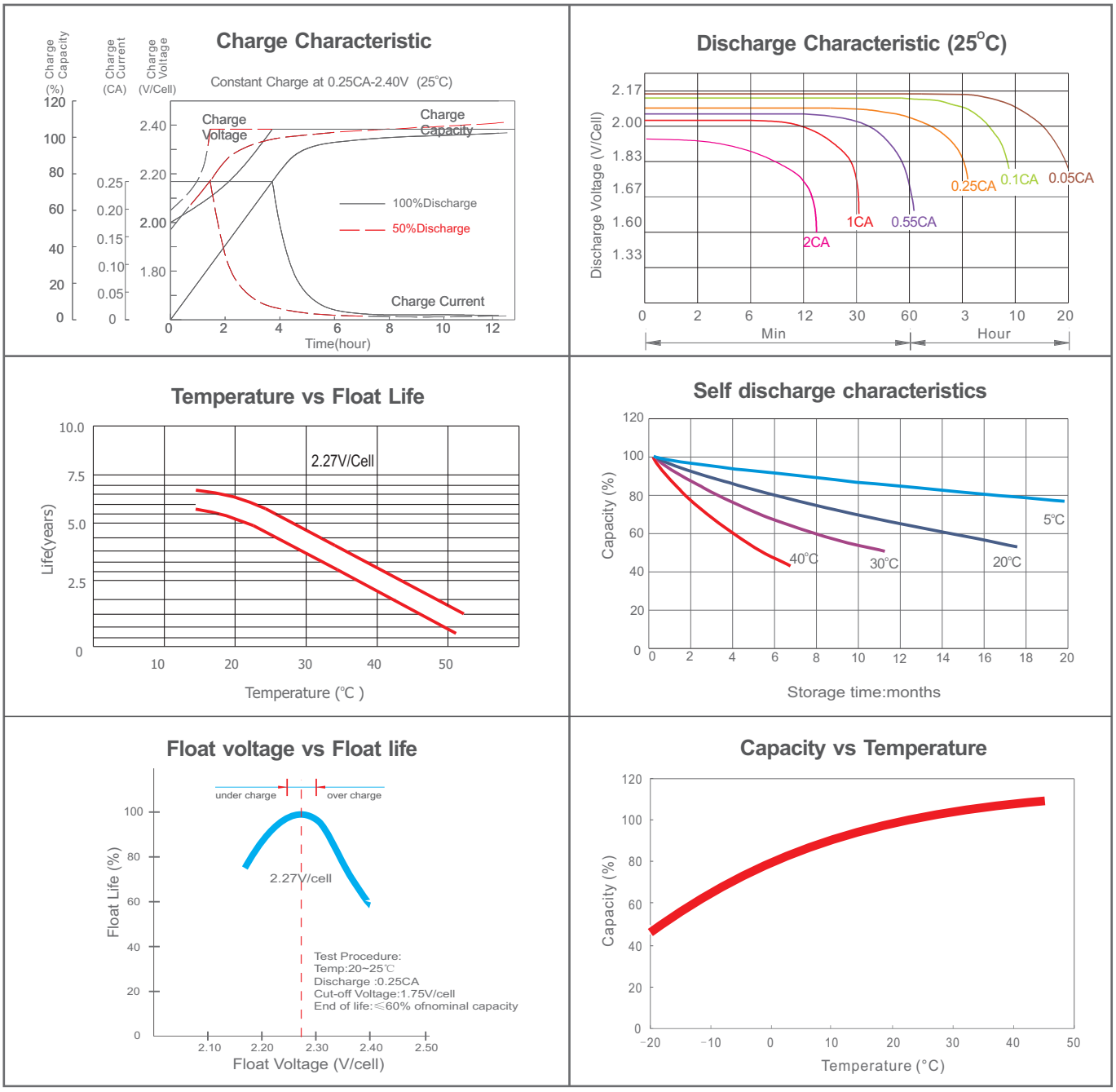
Constant Current Discharge Characteristics: Amps (25°C)

F.V/Time	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	51.5	39.3	23.4	14.7	9.27	6.61	5.23	4.32	2.91	2.38	1.27
1.67V	49.8	38.0	22.9	14.5	9.16	6.55	5.15	4.27	2.87	2.35	1.25
1.70V	47.6	37.0	22.5	14.3	9.06	6.49	5.09	4.21	2.84	2.32	1.23
1.75V	45.5	36.1	21.9	14.1	8.94	6.42	5.04	4.15	2.81	2.30	1.20
1.80V	43.0	35.2	21.6	13.8	8.81	6.33	4.97	4.10	2.78	2.27	1.17
1.85V	40.5	34.3	21.1	13.6	8.69	6.25	4.92	4.07	2.75	2.24	1.14

Constant Power Discharge Characteristics: W/cell (25°C)

F.V/Time	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	103	79.7	48.1	28.9	17.6	12.7	9.91	8.21	5.59	4.60	2.47
1.67V	100	77.5	47.2	28.7	17.5	12.6	9.82	8.17	5.56	4.56	2.44
1.70V	97.1	76.3	46.7	28.4	17.4	12.5	9.78	8.13	5.54	4.54	2.42
1.75V	93.9	75.2	46.0	28.2	17.3	12.3	9.76	8.08	5.53	4.52	2.38
1.80V	89.7	74.0	45.6	27.8	17.2	12.2	9.72	8.06	5.50	4.51	2.34
1.85V	85.6	72.9	45.2	27.7	17.1	12.1	9.70	8.04	5.47	4.47	2.30

CHARACTERISTICS



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	≥1.80 Vpc	≥1.75 Vpc	≥1.7 Vpc	≥1.6 Vpc