

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

100Ah
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)	100 Ah @ 10HR-rate (to 1.80Vpc)
Dimension (mm)	L194mm x W170mm x H210mm
Approx. Weight	15.5 kg (34.2 lbs)
Terminal Type	Female Copper Insert M6 (torque:6~7N.m)
Internal Resistance	Approx. 0.0035 Ohm (fully charged @ 20°C)
Max. Charge Current	25A
Max. Discharge Current (5S)	800 A
Short Circuit Current	1700 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



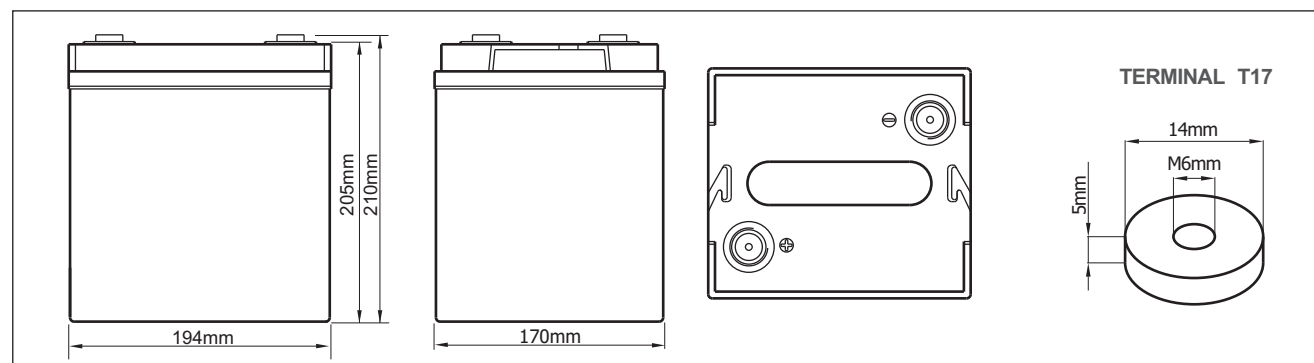
ISO14001



Complied standards

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

BATTERY DIMENSIONS

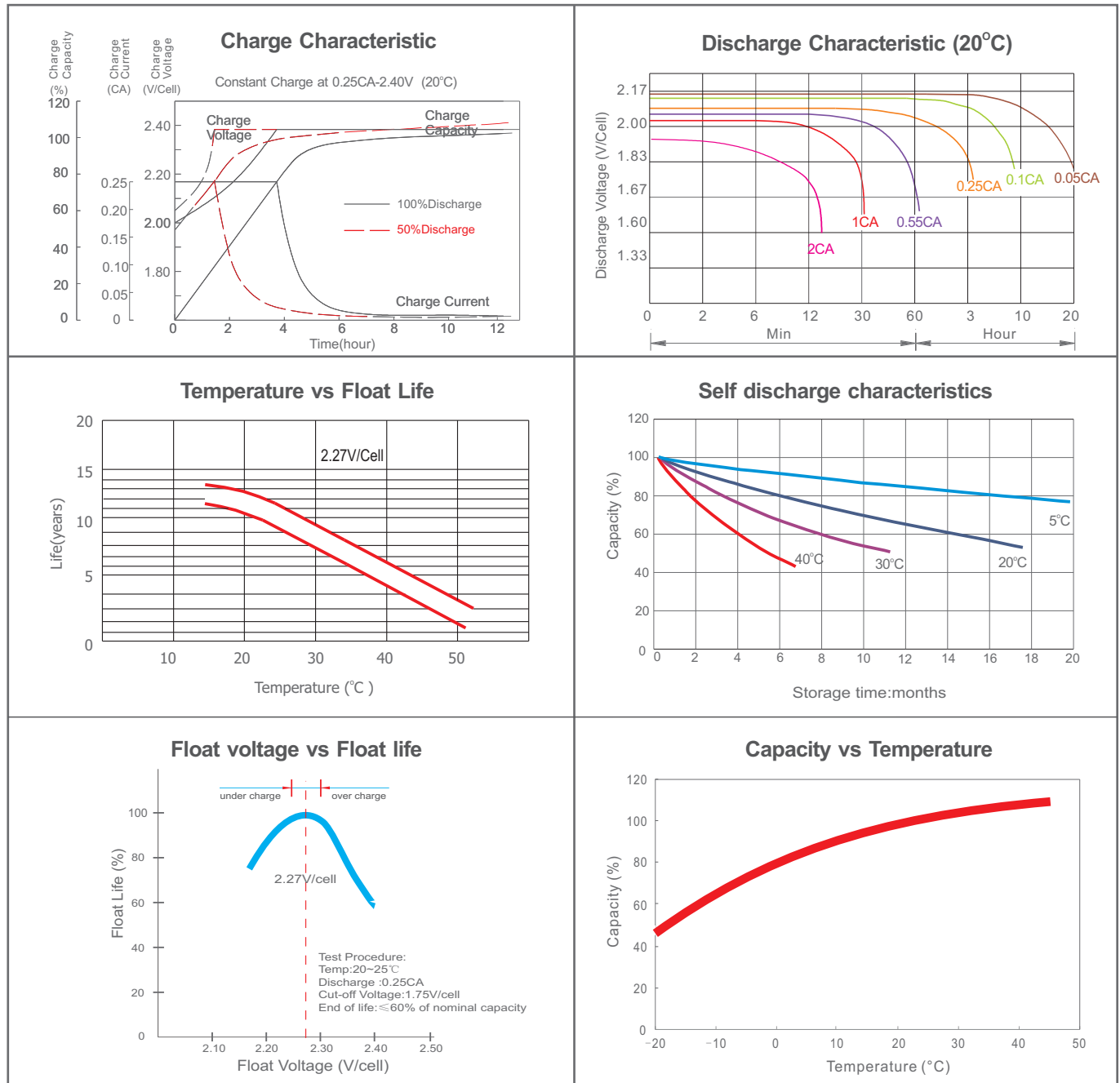


BATTERY DISCHARGE TABLE

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
1.60 V	213	175	108	66.2	38.9	28.1	22.6	18.8	12.9	10.6	5.71
1.67 V	196	165	103	64.5	38.2	27.7	22.3	18.6	12.7	10.5	5.58
1.70 V	178	156	99.5	63.0	37.7	27.4	22.1	18.4	12.5	10.3	5.45
1.75 V	165	145	96.0	61.7	37.0	27.0	21.8	18.2	12.4	10.2	5.35
1.80 V	150	135	91.8	59.7	36.2	26.4	21.3	17.7	12.1	10.0	5.25
1.85 V	135	123	86.6	57.1	34.8	25.6	20.7	17.3	11.8	9.74	5.13

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	382	320	200	123	73.0	53.0	42.8	35.8	24.7	20.5	11.1
1.67 V	356	304	192	121	72.1	52.7	42.5	35.6	24.5	20.3	10.9
1.70 V	327	290	186	119	71.8	52.4	42.4	35.5	24.4	20.2	10.7
1.75 V	307	272	181	117	71.1	52.0	42.3	35.4	24.3	20.1	10.6
1.80 V	282	256	175	115	70.2	51.5	41.7	34.8	23.9	19.9	10.5
1.85 V	257	236	167	111	68.1	50.2	40.8	34.3	23.5	19.5	10.3

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