

## 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    **55Ah** capacity    **AGM** tech    **Enhanced deep cycling**



### TECHNICAL SPECIFICATIONS

Nominal Voltage (V)	12 (6 cells per unit)
Designed Floating Life (20°C)	12 Years
Nominal Capacity (20°C)	55 Ah @ 10HR-rate (to 1.80Vpc)
Dimension (mm)	L230mm x W138mm x H213mm
Approx. Weight	16.0 kg (35.3 lbs)
Terminal Type	Female Copper Insert M6 (torque:6~7N.m)
Internal Resistance	Approx. 0.0058 Ohm (fully charged @ 20°C)
Max. Charge Current	13.75A
Max. Discharge Current (5S)	500 A
Short Circuit Current	2050 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)



ISO9001

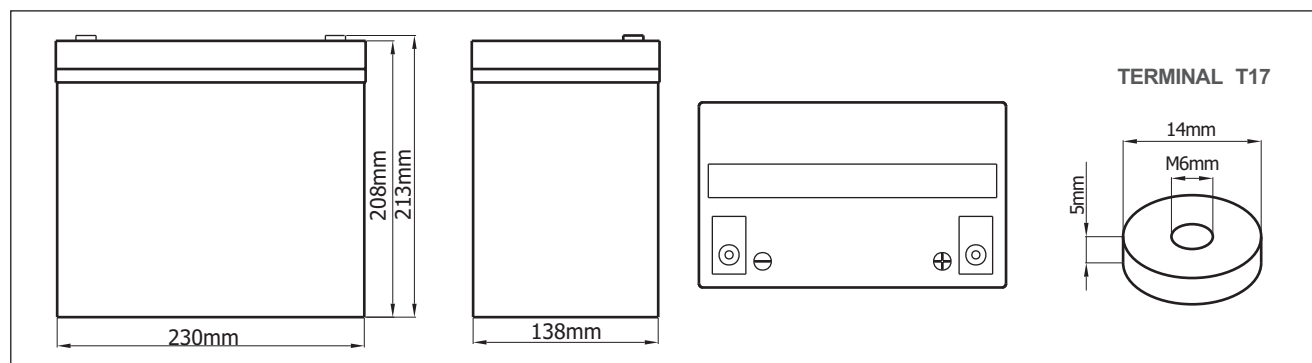
ISO14001



#### Complied standards

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

### BATTERY DIMENSIONS

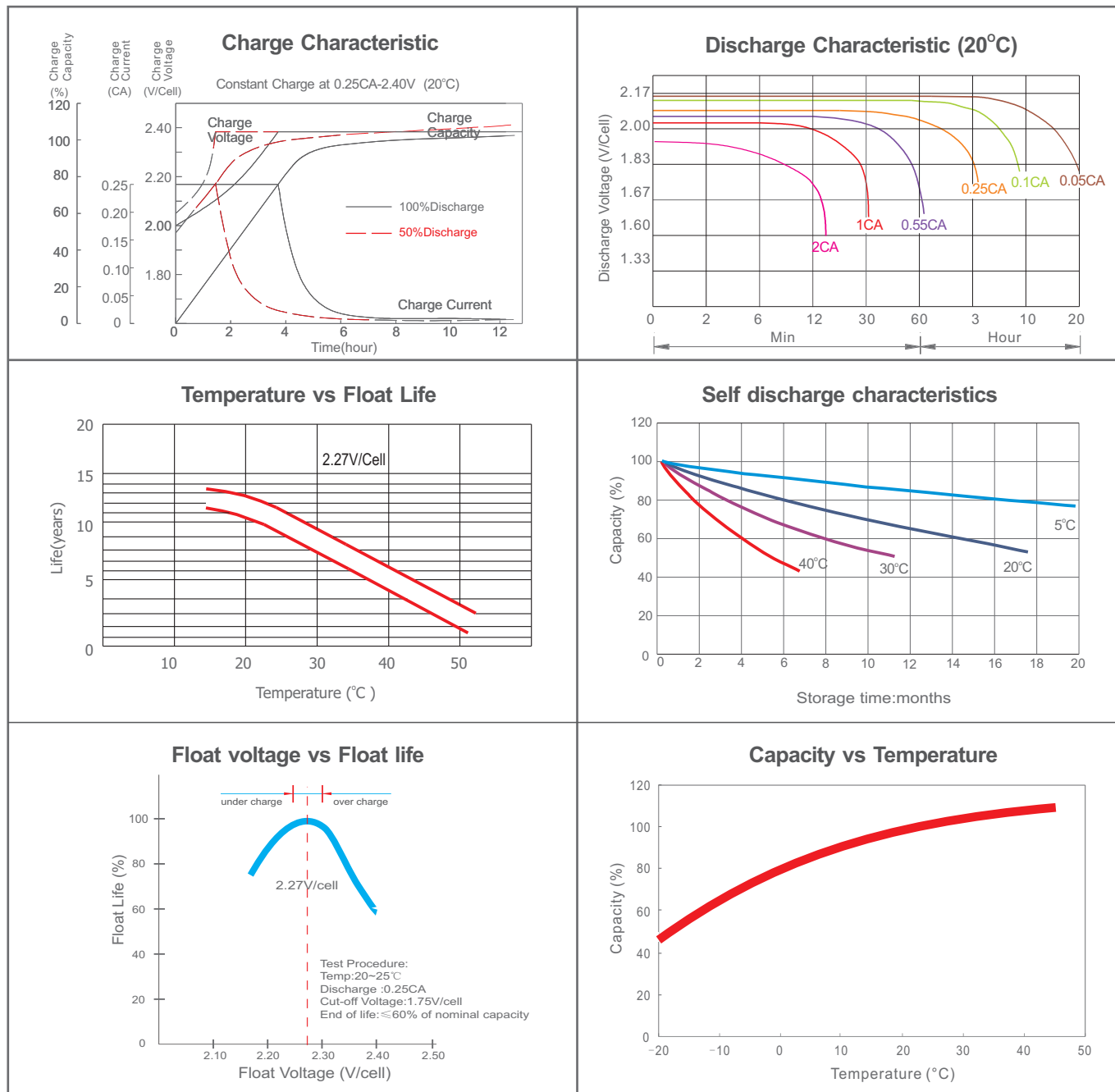


### BATTERY DISCHARGE TABLE

Constant Current Discharge Characteristics: Amps (25°C)											
F.V/Time	10m in	15m in	30m in	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	117	96.5	59.5	36.4	21.4	15.4	12.4	10.4	7.07	5.83	3.14
1.67V	107.7	90.9	56.8	35.5	21.0	15.2	12.3	10.2	6.98	5.76	3.07
1.70V	97.9	85.9	54.7	34.7	20.7	15.1	12.1	10.1	6.89	5.69	3.00
1.75V	90.9	79.8	52.8	33.9	20.4	14.8	12.0	10.0	6.79	5.61	2.94
1.80V	82.7	74.4	50.5	32.8	19.9	14.5	11.7	9.76	6.63	5.50	2.89
1.85V	74.4	67.8	47.6	31.4	19.2	14.1	11.4	9.53	6.49	5.36	2.82

Constant Power Discharge Characteristics: W/cell (25°C)											
F.V/Time	10m in	15m in	30m in	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	210	176	110	67.9	40.1	29.1	23.6	19.7	13.6	11.3	6.10
1.67V	196	167	106	66.5	39.7	29.0	23.4	19.6	13.5	11.2	6.00
1.70V	180	159	102	65.4	39.5	28.8	23.3	19.5	13.4	11.1	5.91
1.75V	169	150	100	64.6	39.1	28.6	23.1	19.4	13.3	11.0	5.83
1.80V	155	141	96.2	63.0	38.6	28.3	22.9	19.2	13.1	10.9	5.77
1.85V	141	130	91.7	60.9	37.5	27.6	22.5	18.8	12.9	10.7	5.67

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