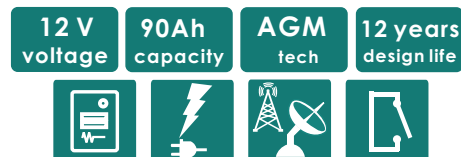


## DURATION SERIES VRLA BATTERY

By combining a newly developed corrosion resistance alloy and advanced curing process, bosfa created a range of long life batteries - Duration range. The range features top termination and offers 12 years design life. This battery series is highly suited to UPS systems, switchgear, CATV and telecommunication systems applications.



### TECHNICAL SPECIFICATIONS

Nominal Voltage (V)	12 (6 cells per unit)
Designed Floating Life (20°C)	12 Years
Nominal Capacity (20°C)	90 Ah @ 10HR-rate (to 1.80Vpc)
Dimension (mm)	L306mm x W169mm x H216mm
Approx. Weight	26.0 kg (57.3 lbs)
Terminal Type	Female Copper Insert M6 (torque:6~7N.m)
Internal Resistance	Approx. 0.0052 Ohm (fully charged @ 20°C)
Max. Charge Current	22.5A
Max. Discharge Current (5S)	720 A
Short Circuit Current	2300 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



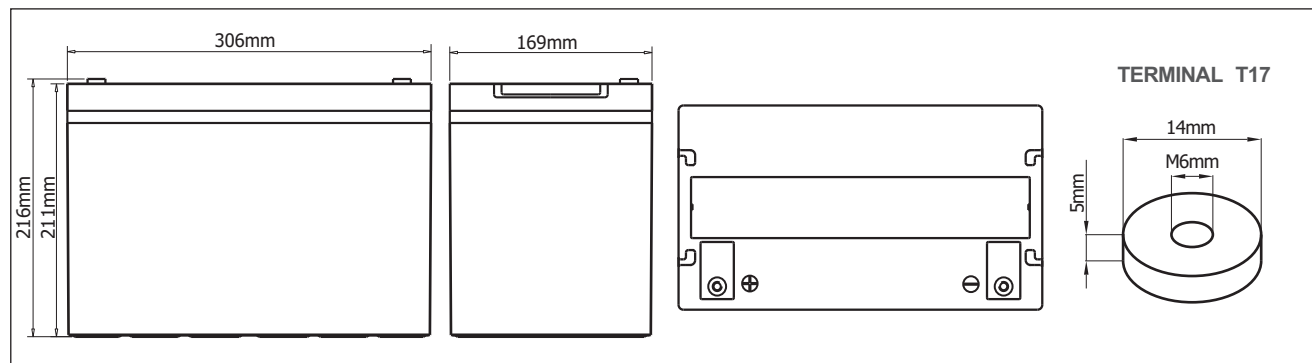
ISO14001



#### Complied standards

- IEC 60896-21/22
- JIS C8704
- GB/T19639

### BATTERY DIMENSIONS

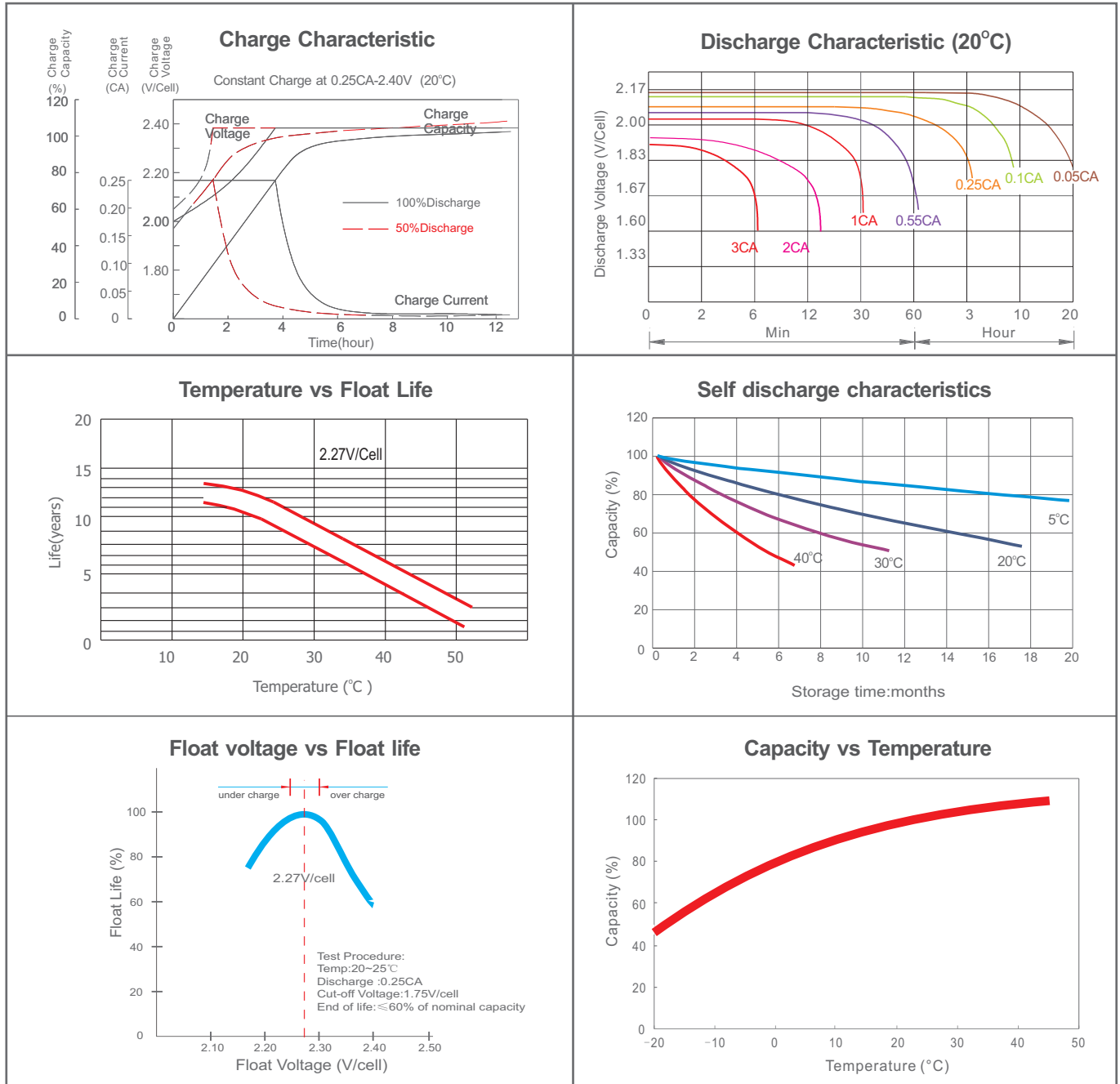


### BATTERY DISCHARGE TABLE

Constant Current Discharge Characteristics: Amps (25°C)												
F.V/Time	5 m in	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	270	199	165	101	60.8	35.3	25.5	20.3	16.9	11.6	9.55	5.14
1.67V	241	184	155	96.8	59.2	34.7	25.2	20.1	16.7	11.4	9.42	5.02
1.70V	215	167	146	93.2	57.9	34.3	24.9	19.9	16.6	11.3	9.31	4.91
1.75V	187	155	136	90.0	56.7	33.7	24.5	19.6	16.4	11.1	9.18	4.82
1.80V	165	141	127	86.0	54.8	32.9	24.0	19.2	16.0	10.9	9.00	4.72
1.85V	142	127	116	81.2	52.4	31.7	23.3	18.6	15.6	10.6	8.77	4.61

Constant Power Discharge Characteristics: W/cell (25°C)												
F.V/Time	5 m in	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	475	358	300	187	113	66.4	48.1	38.5	32.2	22.2	18.4	10.0
1.67V	430	333	285	180	111	65.6	47.9	38.3	32.1	22.1	18.3	9.82
1.70V	388	306	272	175	109	65.2	47.7	38.2	32.0	22.0	18.2	9.67
1.75V	342	288	255	170	108	64.6	47.3	38.1	31.8	21.8	18.1	9.55
1.80V	306	264	240	164	105	63.8	46.8	37.5	31.3	21.5	17.9	9.43
1.85V	267	241	221	156	102	61.9	45.7	36.7	30.8	21.2	17.5	9.27

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