

## XT SERIES VRLA BATTERY

By combining newly developed NANO Gel electrolyte, container with enhanced characteristics, and plates - horizontally positioned, pancake-style stacked & compressed under 60kPA - we created innovative XT Series of batteries.

The XT Series features: 15 year design life, front access terminals for fast installation and easy maintenance, outstanding thermal resistance (works in up to 65°C). The XT Series batteries are highly suited for telecom outdoor applications, non-airconditioned substation switchrooms, rail signalling, industrial automation, renewable energy systems and other harsh environment applications requiring good cyclic ability and reliable work under elevated temperatures.



### TECHNICAL SPECIFICATIONS

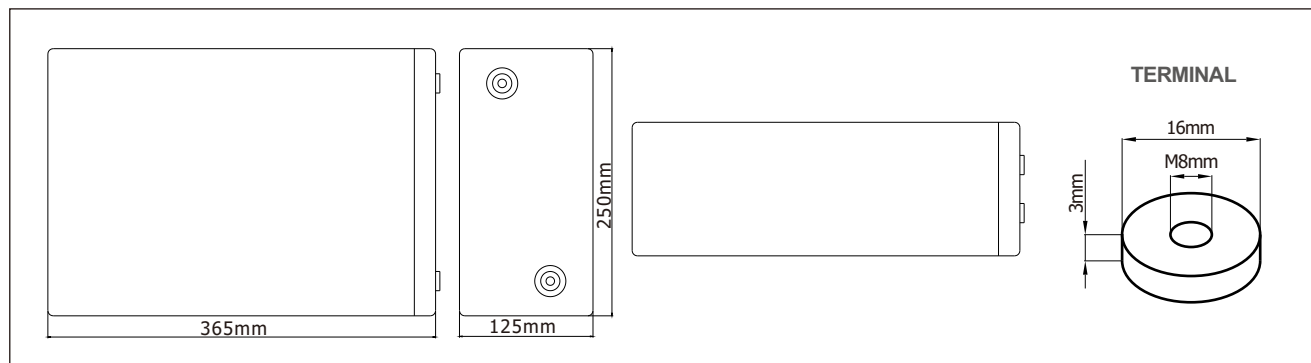
Nominal Voltage (V)	6 (3 cells per unit)
Designed Floating Life (20°C)	15 Years
Nominal Capacity (25°C)	200 Ah @ 10HR-rate (to 1.80Vpc)
Dimension (mm)	L250mm x W125mm x H365mm
Approx. Weight	31.5 kg
Terminal Type	Female Copper Insert M8 (torque:8~10N.m)
Internal Resistance	Approx. 0.0017 Ohm (fully charged @ 25°C)
Max. Charge Current	50A
Max. Discharge Current (5S)	1200 A
Short Circuit Current	3500 A
Self Discharge	Approx. 2.5% per month @ 20°C
Ambient Temperature	Discharge: -25~60°C Charge: -25~60°C Storage: -25~45°C
Float Charge Voltage	6.75V @25°C (-3mV/ cell/ °C)
Equalize Charge Voltage	7.10V @25°C
Container Material	ABS (UL94-V0 optional)



### Complied standards

- IEC 60896-2/1/22
- GB/T19638
- YD/T799
- JIS C8704
- BS6290 part 4
- UL1989

### BATTERY DIMENSIONS

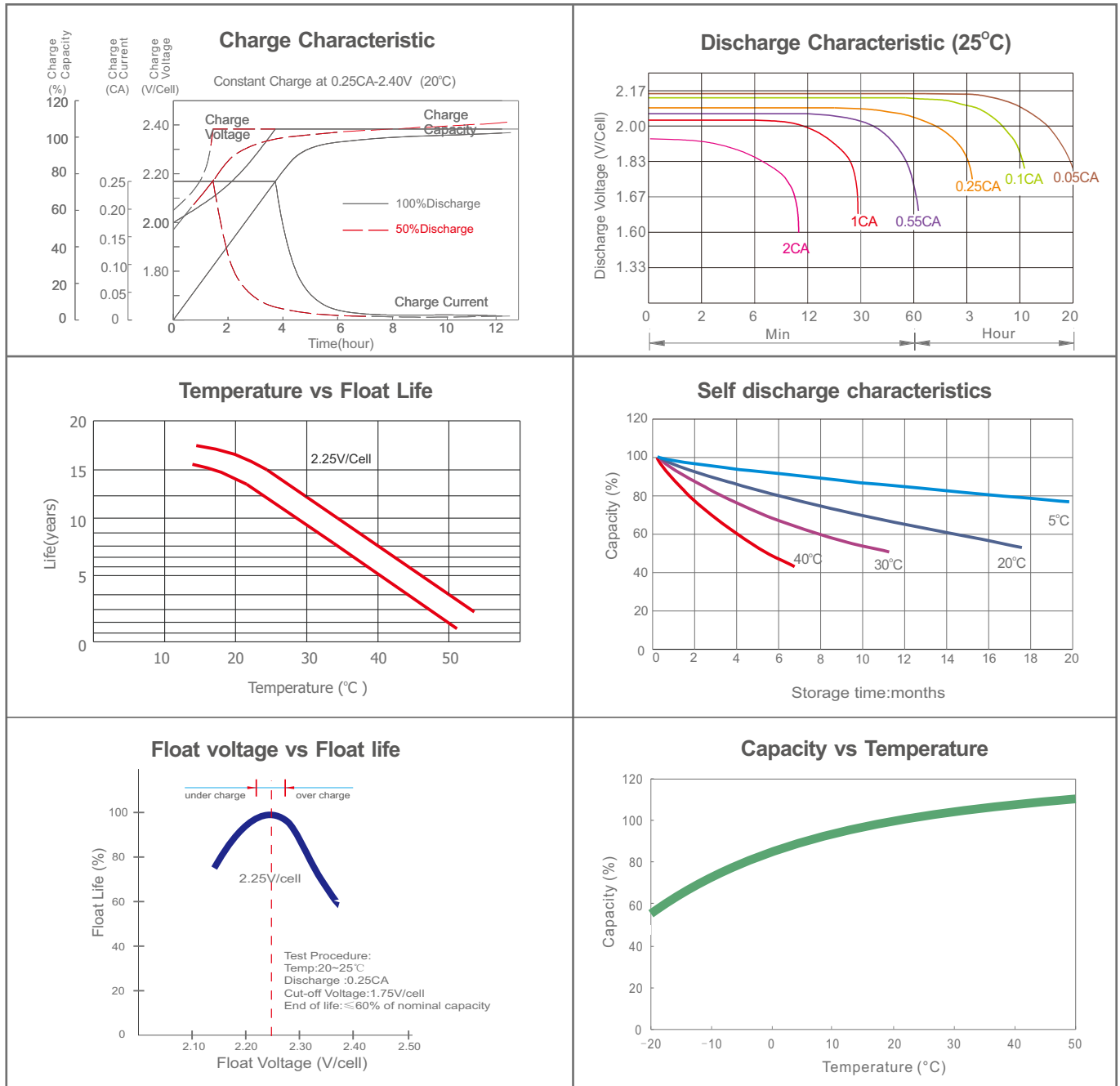


### BATTERY DISCHARGE TABLE

Constant Current Discharge Characteristics: Amps (25°C)											
F.V/Time	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	360	309	192	132	75.9	54.9	44.1	36.3	25.6	21.2	11.0
1.67V	331	291	186	129	74.6	54.3	43.2	35.9	25.2	20.9	10.9
1.70V	301	275	179	127	73.6	53.6	42.8	35.6	25.1	20.7	10.8
1.75V	280	255	173	124	72.4	52.8	42.3	35.0	24.5	20.4	10.7
1.80V	254	238	165	120	70.2	51.6	41.3	34.6	24.0	20.0	10.6
1.85V	229	217	156	117	67.5	49.3	40.0	33.4	23.1	19.3	10.0

Constant Power Discharge Characteristics: W/cell (25°C)											
F.V/Time	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	646	563	355	246	143	104	83.6	69.1	49.1	41.0	21.9
1.67V	602	535	345	242	141	103	82.4	67.5	48.7	40.7	21.7
1.70V	553	510	335	240	140	103	82.2	68.7	48.5	40.5	21.5
1.75V	519	478	326	236	139	102	82.0	68.1	48.1	40.2	21.3
1.80V	477	450	314	230	136	100	80.8	67.9	47.5	39.7	21.2
1.85V	435	415	300	226	132	96.9	79.0	66.1	46.1	38.6	20.1

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

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