

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.

12 V voltage	100Ah capacity	GEL tech	15 years design life

TECHNICAL SPECIFICATIONS

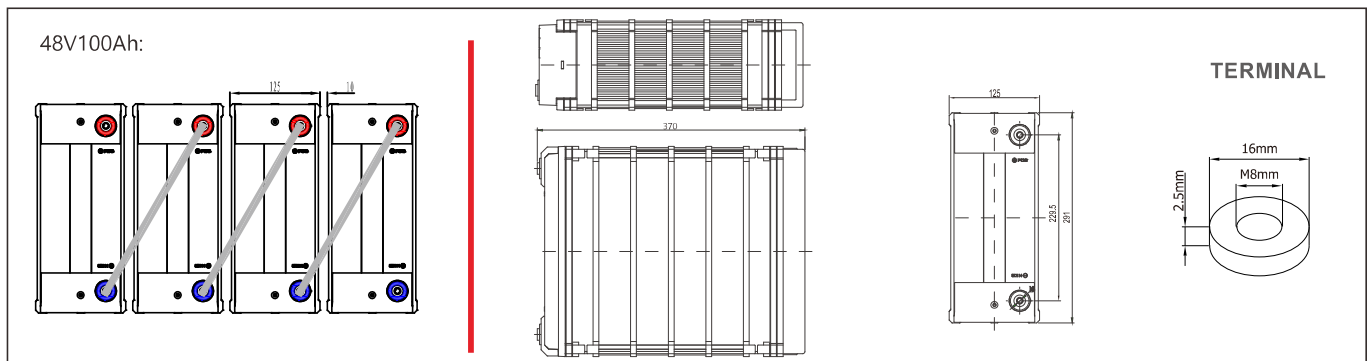
Nominal Voltage (V)	12 (6 cells per unit)
Designed Floating Life (20°C)	15 Years
Nominal Capacity (25°C)	100 Ah @ 10HR-rate (to 1.80Vpc)
Dimension (mm)	L291mm x W125mm x H370mm
Approx. Weight	33.0 kg
Terminal Type	Female Copper Insert M8 (torque:8~10N.m)
Internal Resistance	Approx. 0.005 Ohm (fully charged @ 25°C)
Max. Charge Current	25A
Max. Discharge Current (5S)	800 A
Short Circuit Current	2000 A
Self Discharge	Approx. 2.5% per month @ 20°C
Ambient Temperature	Discharge: -25~65°C Charge: -25~65°C Storage: -25~45°C
Float Charge Voltage	13.5V (-3mV/ cell/°C)
Equalize Charge Voltage	14.1V @25°C
Container Material	ABS (UL94-V0 optional)



Complied standards

- IEC 60896-21/22
- GB/T19638
- IEC61427
- YD/T799
- Eurobat guide, long life
- BS6290 part 4
- UL1989

BATTERY DIMENSIONS

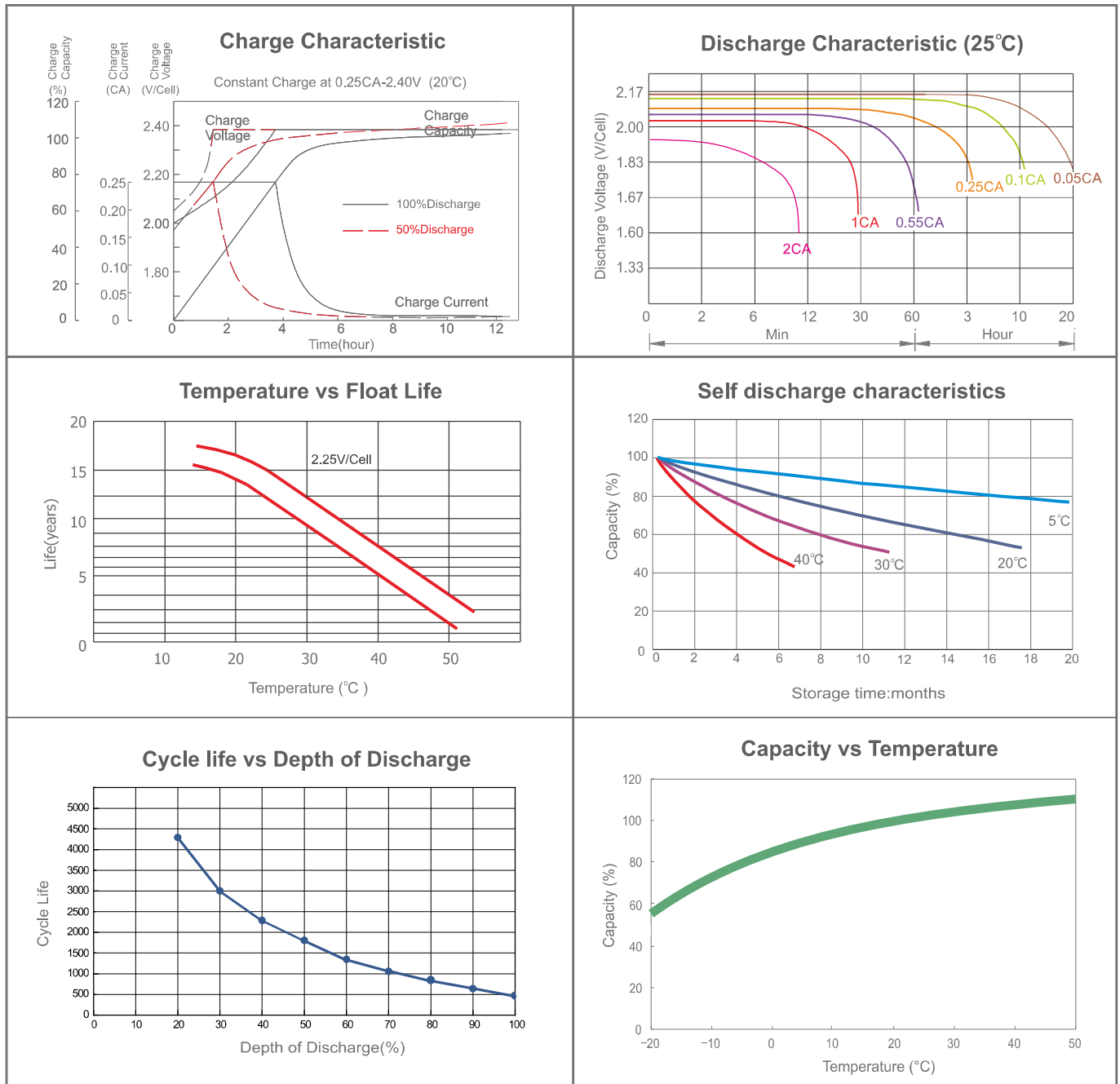


BATTERY DISCHARGETABLE

Constant Current Discharge Characteristics: Amps (25°C)										
F.V/Time	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	173	106	68.3	39.1	28.0	22.3	18.3	13.4	10.6	5.50
1.67V	162	103	66.7	38.4	27.6	21.8	18.1	13.2	10.5	5.45
1.70V	154	98.7	65.7	37.9	27.3	21.6	17.9	13.1	10.3	5.38
1.75V	142	95.3	64.1	37.3	26.9	21.3	17.6	12.9	10.2	5.33
1.80V	132	91.1	62.1	36.1	26.3	20.8	17.4	12.5	10.0	5.30
1.85V	121	85.9	60.3	34.8	25.2	20.2	16.8	12.1	9.65	5.00

Constant Power Discharge Characteristics: W/cell (25°C)										
F.V/Time	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	314	196	127	73.4	52.8	42.2	34.8	25.7	20.5	10.9
1.67V	298	191	125	72.6	52.6	41.6	34.0	25.5	20.3	10.8
1.70V	284	185	124	72.2	52.3	41.5	34.6	25.3	20.2	10.7
1.75V	267	180	122	71.6	51.9	41.4	34.3	25.2	20.1	10.6
1.80V	251	173	119	70.0	51.2	40.8	34.1	24.9	19.9	10.5
1.85V	231	166	117	68.0	49.4	39.9	33.2	24.0	19.3	10.1

CHARACTERISTICS



FINAL VOLTAGE SETTINGS RECOMMENDED ACCORDING TO THE DISCHARGE CURRENT

Discharge Current (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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