

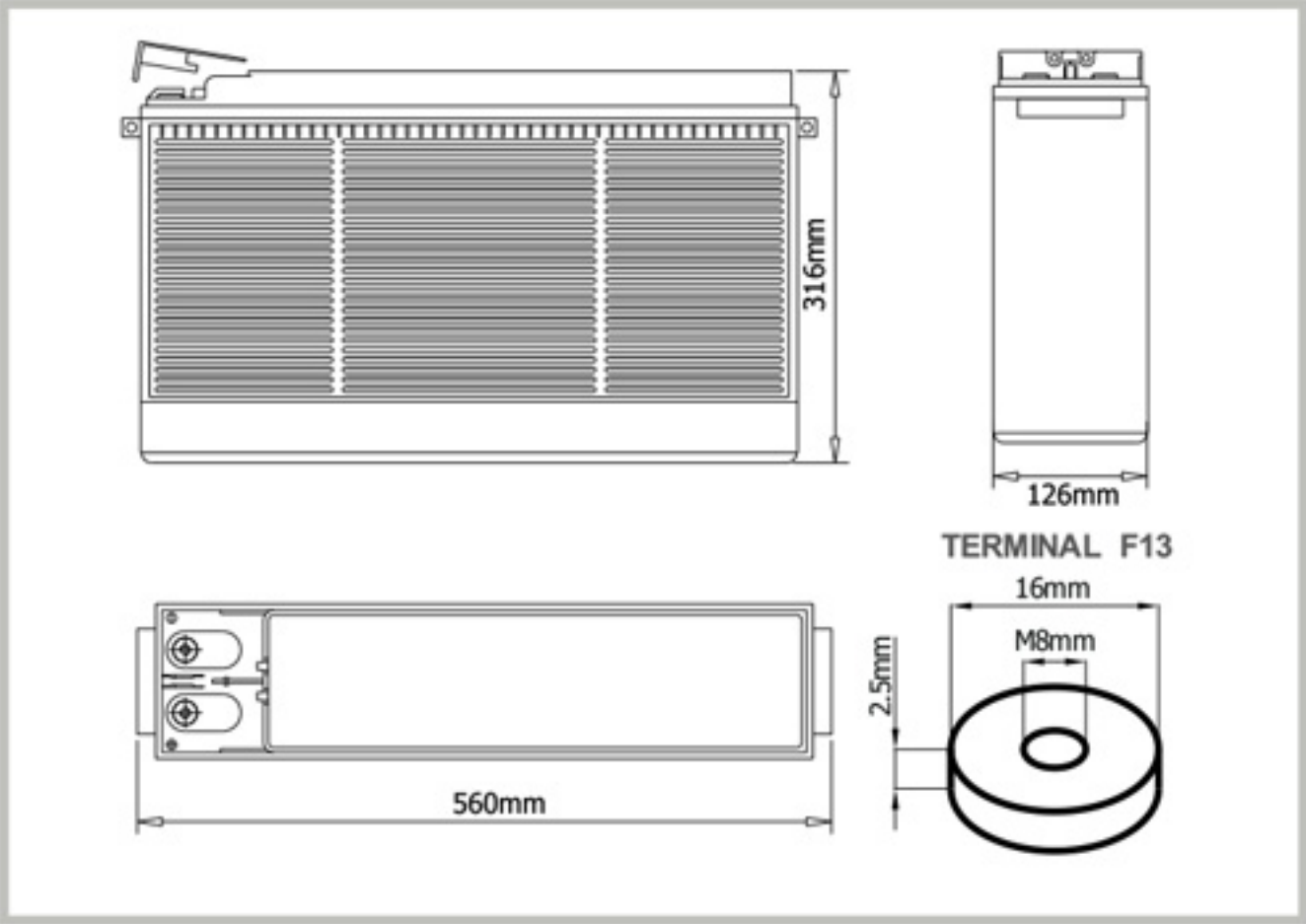
FT200

FT (Front Terminal) Battery Series Gel VRLA Battery. 12V - 180Ah

FRONT TERMINAL GEL VRLA BATTERY

By combining the newly developed nano gel electrolyte with up-to-sate AGM structures, Deutsche Power created the innovation Front terminal Gel range of batteries. The range features 15 years design life and front access connection for fast, easy installation and maintenance. This range battery is highly suited to telecom outdoor application, renewable energy systems and other harsh environment applications.

TECHNICAL SPECIFICATIONS



12V

200Ah

Front GEL

15 years design life



TECHNICAL SPECIFICATIONS

Nominal Voltage (V)	12 (6 cells per unit)
Designed Floating Life (20°C)	15 Years
Nominal Capacity (20°C)	200 Ah @ 10HR-rate (to 1.80Vpc)
Dimension (mm)	L560mm x W126mm x H316mm
Approx. Weight	58.0 kg (128.0 lbs)
Terminal Type	Female Copper Insert M8 (torque:10~12N.m)
Internal Resistance	Approx. 0.004 Ohm (fully charged @ 20°C)
Max. Charge Current	50A
Max. Discharge Current (5S)	1500 A
Short Circuit Current	4000 A
Self Discharge	Approx. 3% per month @ 20°C
Ambient Temperature	Discharge: -15~50°C Charge: -15~40°C Storage: -15~40°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

CE

UL

Complied standards

- IEC 60896-21/22
- UL1989
- JIS C8704
- GB/T19639

BATTERY DISCHARGE TABLE

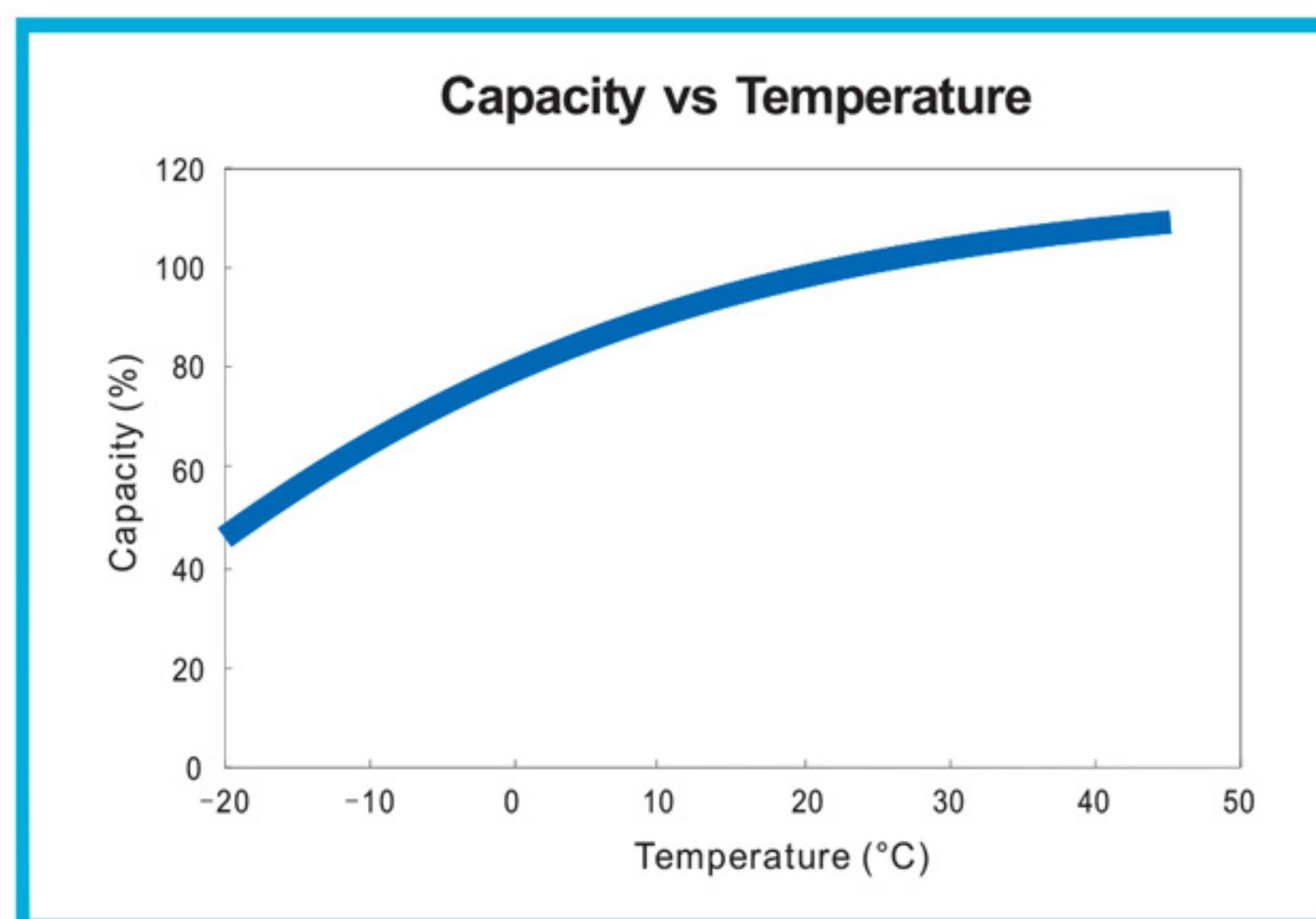
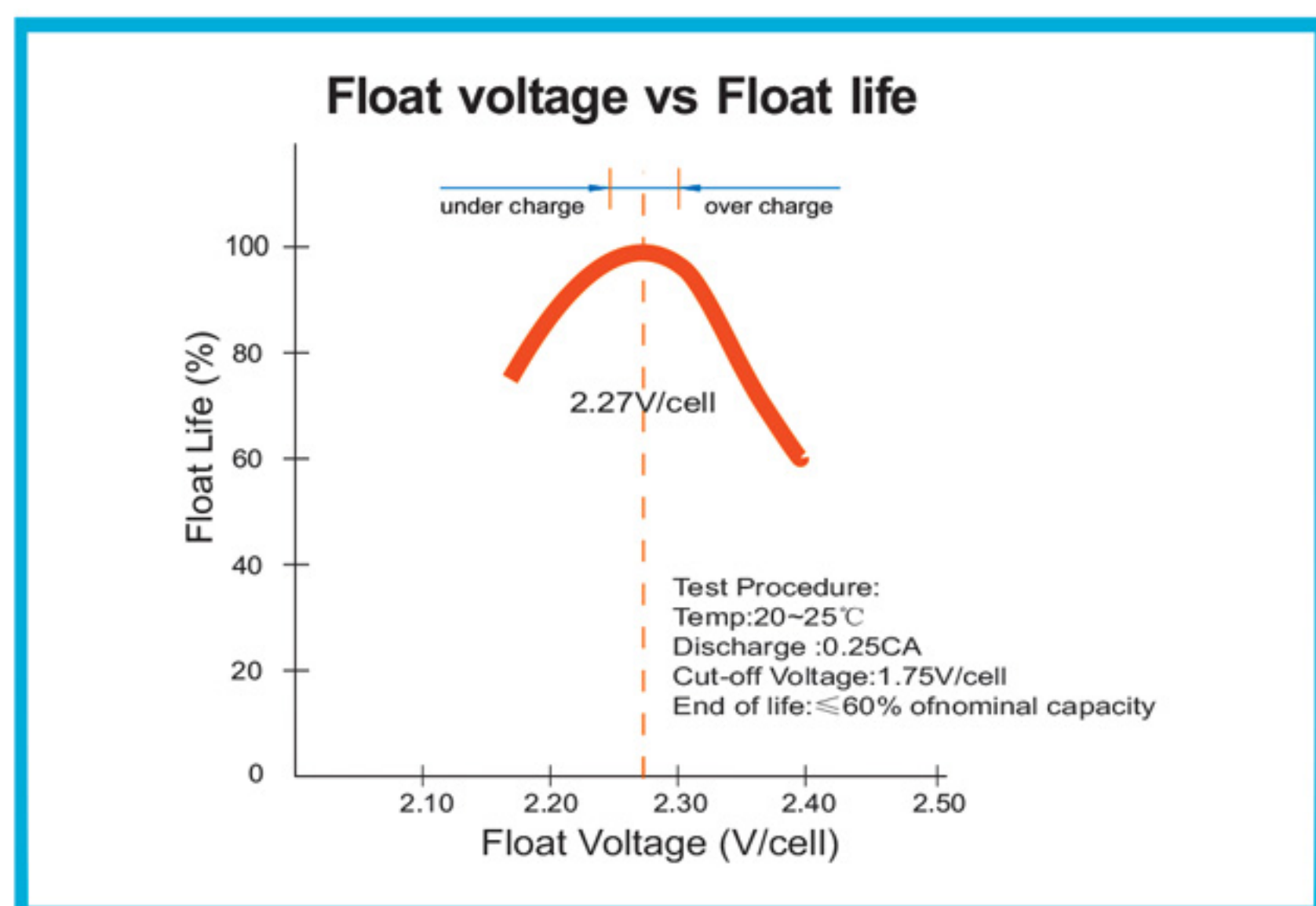
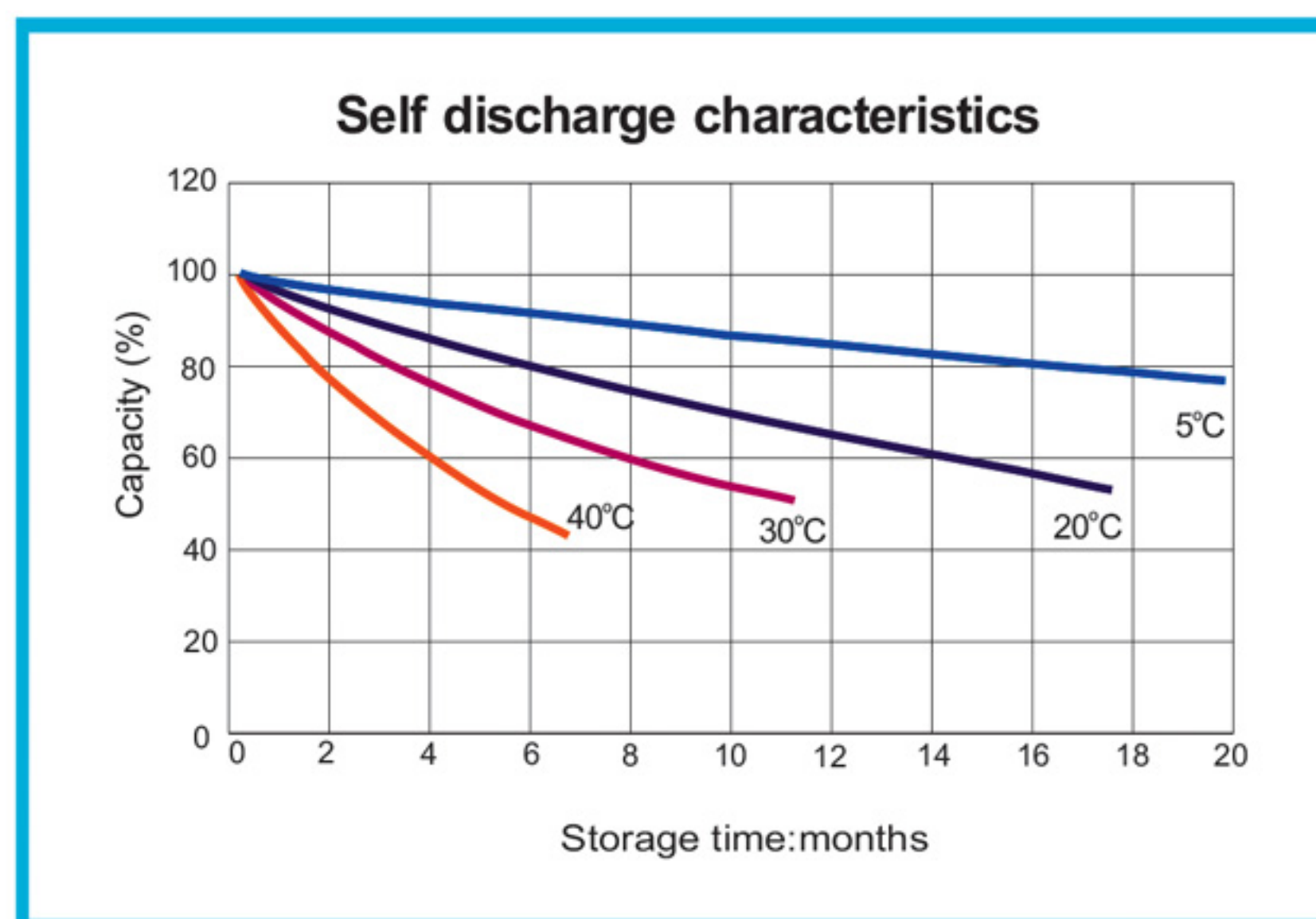
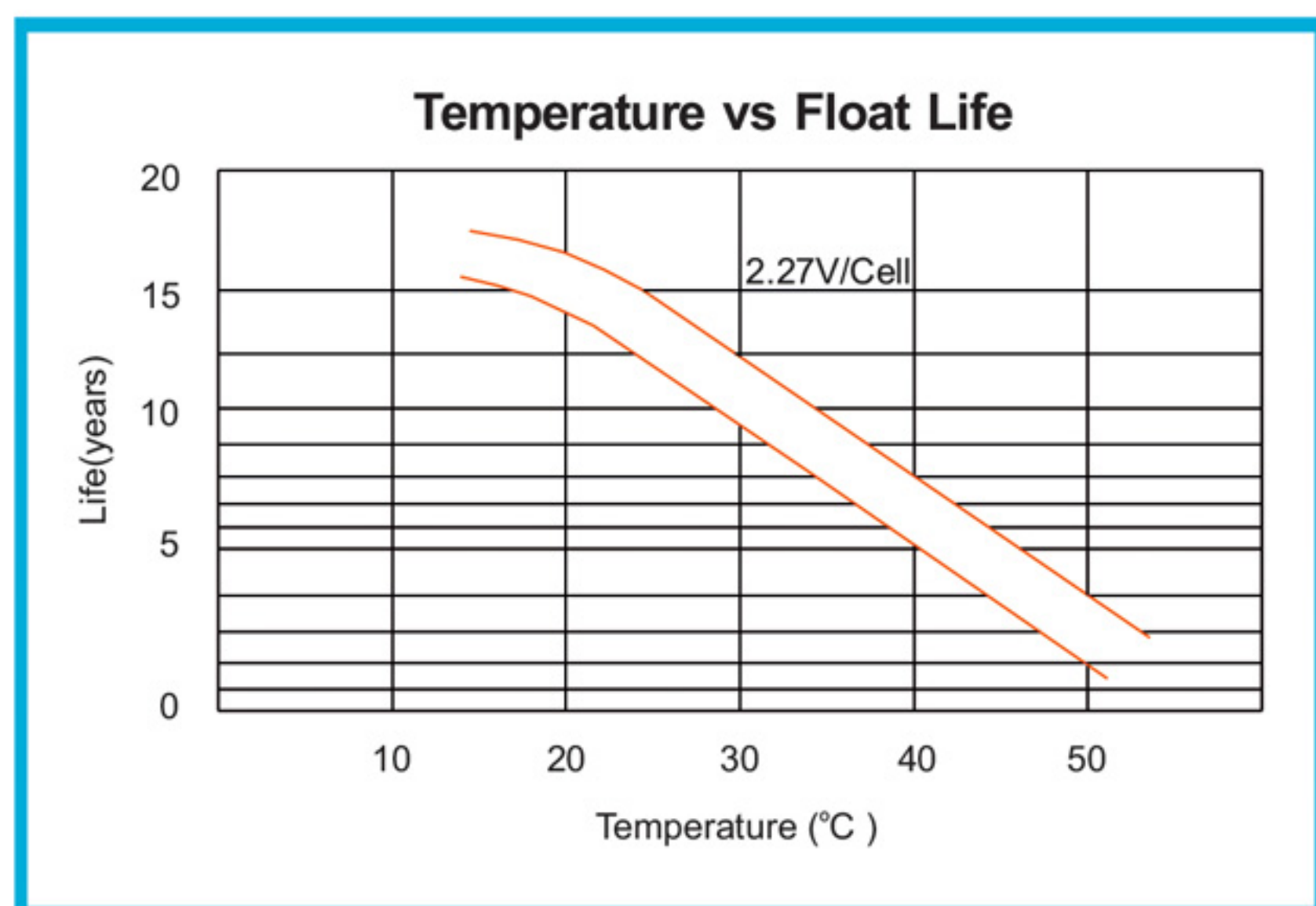
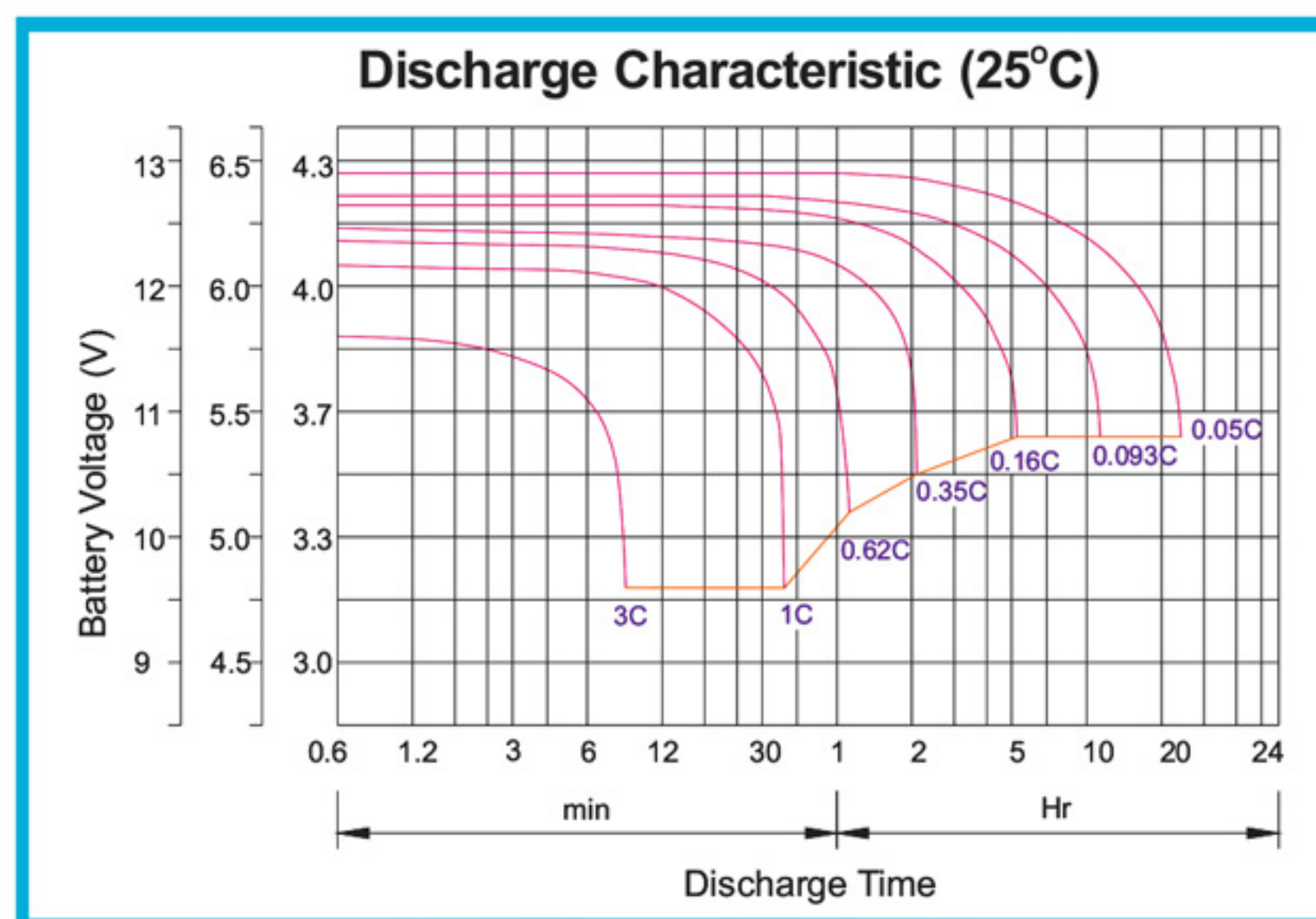
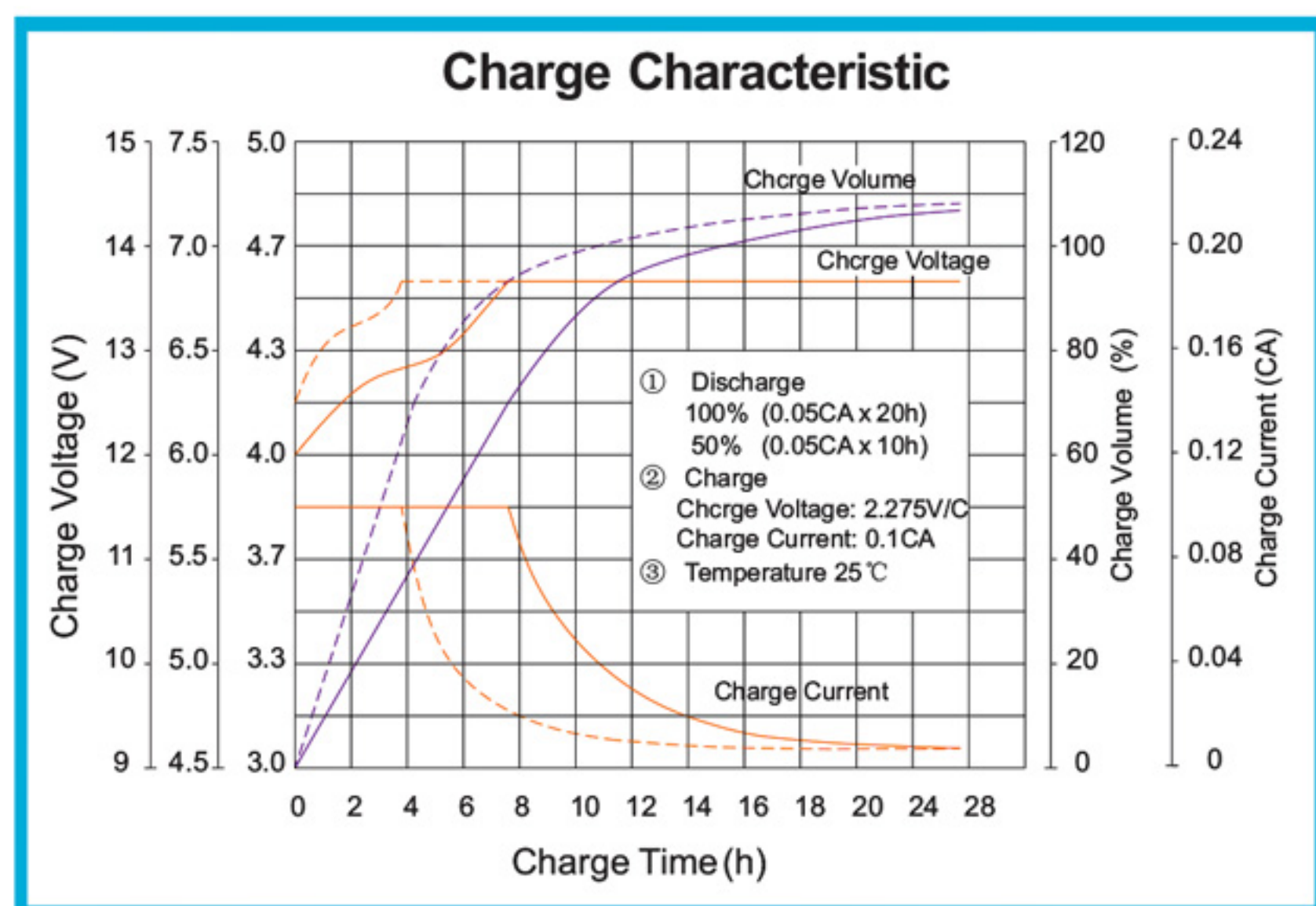
Constant Current Discharge Characteristics: Amps (25°C)												
F.V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	540	378	304	192	121	71.5	54.8	43.2	35.5	25.5	21.2	11.0
1.67V	482	348	297	190	119	70.3	54.2	42.3	34.9	25.2	20.9	10.9
1.70V	430	316	286	187	115	69.4	53.6	41.8	34.8	25.0	20.6	10.8
1.75V	373	294	269	182	113	68.2	52.7	41.4	34.4	24.5	20.4	10.6
1.80V	331	267	251	173	108	66.2	51.7	40.4	34.0	24.0	20.0	10.5
1.85V	283	241	229	163	105	63.6	49.3	39.2	32.4	23.1	19.2	10.0

Constant Power Discharge Characteristics: W/cell (25°C)												
F.V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	950	679	593	377	226	143	103	81.9	67.8	49.0	41.0	21.3
1.67V	858	633	563	363	222	133	102	80.7	66.9	48.7	40.6	21.3
1.70V	776	581	536	352	213	132	101	80.4	67.3	48.6	40.4	21.3
1.75V	683	546	503	343	215	130	100	80.3	66.9	48.1	40.2	21.2
1.80V	612	502	474	331	207	128	99.8	79.1	66.7	47.5	39.7	21.1
1.85V	533	457	436	315	203	124	96.8	77.4	63.8	46.1	38.5	20.1

FT200

FT (Front Terminal) Battery Series
Gel VRLA Battery. 12V - 200Ah

CHARACTERISTICS



Discharge Current VS. Discharge Voltage

Final Discharge Voltage V/cell	1.80V	1.75V	1.70V	1.60V
Discharge Current I/A	$I < 0.2C$	$0.2C \leq I < 0.6C$	$0.6C \leq I < 1.0C$	$I \geq 1.0C$

Charge the batteries at least once every six months, if they are stored at 25°C.

Charging Method:

Constant Voltage	0.2Cx2h+2.4~2.45V/Cellx24h, Max. Current 0.25CA
Constant Current	0.2Cx2h+0.1CAx12h
Fast	0.2Cx2h+0.3CAx4.0h

Maintenance & Cautions

Cycle service

- ※ Avoid battery over discharge, especially battery series connection use.
- ※ Charged with recommend voltage, ensure battery can be full recharged.
- In general, recharge capacity should be 1.1-1.15 times discharge capacity.
- ※ Effect of temperature on cycle charge voltage: $-5\text{mV}/^{\circ}\text{C}/\text{Cell}$.
- ※ There are a number of factors that will affect the length of cyclic service.
- The most significant are depth of discharge, ambient temperature, discharge rate, and the battery recharge mode.
- Generally speaking, the most important factors is depth of discharge.