

FT80

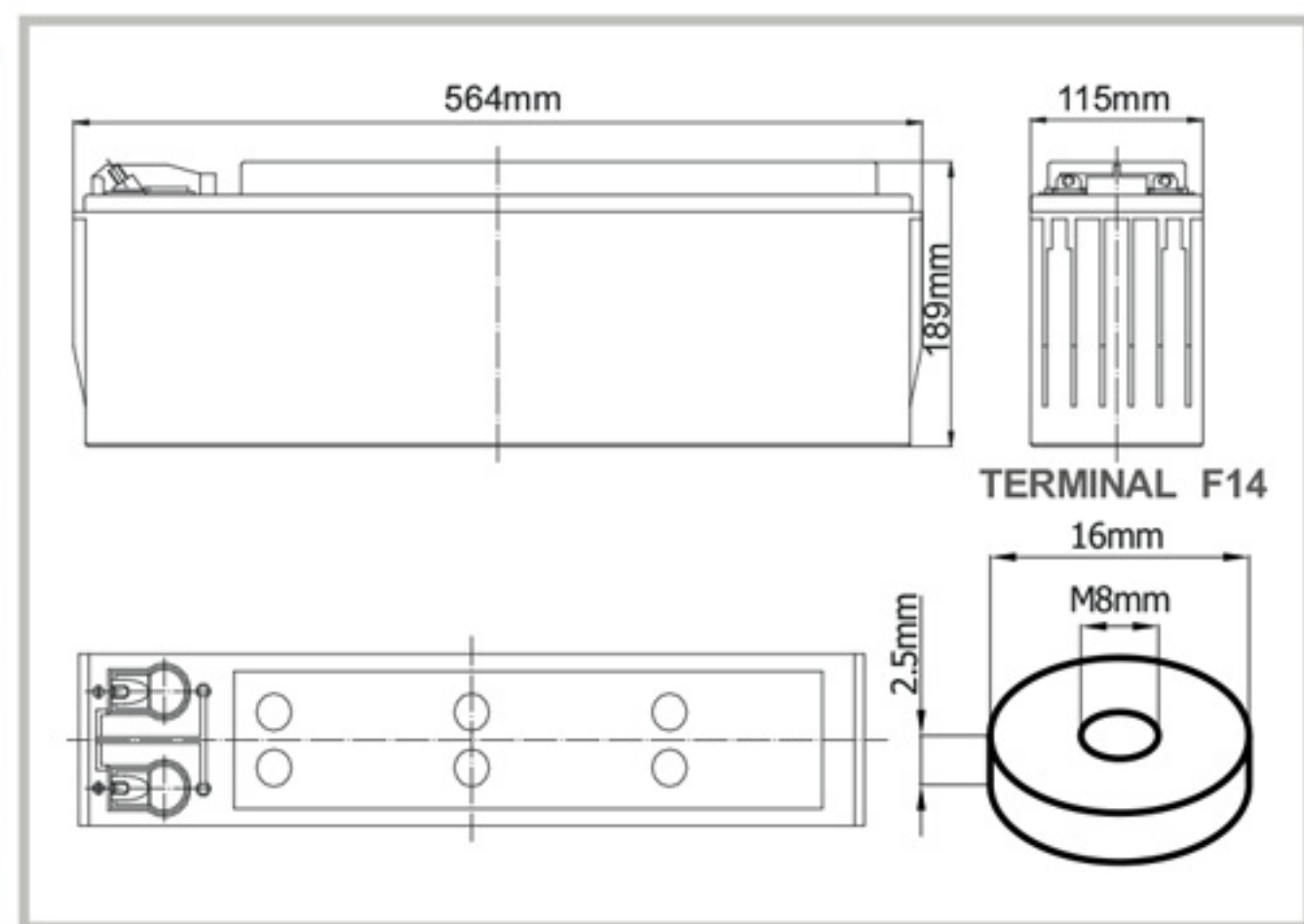
FT (Front Terminal) Battery Series Gel VRLA Battery. 12V - 80Ah

FRONT TERMINAL GEL VRLA BATTERY

By combining the newly developed nano gel electrolyte with up-to-date 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



BATTERY DIMENSIONS

Nominal Voltage (V)	12 (6 cells per unit)
Designed Floating Life (20°C)	15 Years
Nominal Capacity (20°C)	80 Ah @ 10HR-rate (to 1.80Vpc)
Dimension (mm)	L564mm x W115mm x H189mm
Approx. Weight	27.0 kg (59.5 lbs)
Terminal Type	Female Copper Insert M8 (torque:10~12N.m)
Internal Resistance	Approx. 0.006 Ohm (fully charged @ 20°C)
Max. Charge Current	20A
Max. Discharge Current (5S)	640 A
Short Circuit Current	2000 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



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	216	151	130	81.8	48.6	28.6	22.0	17.3	14.2	10.2	8.48	4.40
1.67V	193	140	123	78.2	47.4	28.1	21.7	16.9	14.0	10.1	8.38	4.36
1.70V	172	127	116	75.3	46.3	27.8	21.4	16.8	14.0	10.0	8.27	4.32
1.75V	150	118	107	72.7	45.3	27.3	21.1	16.6	13.8	9.80	8.16	4.26
1.80V	132	107	100	69.5	43.2	26.5	20.7	16.2	13.6	9.60	8.00	4.24
1.85V	113	96	91.3	65.6	42.0	25.5	19.7	15.7	13.0	9.25	7.72	4.00

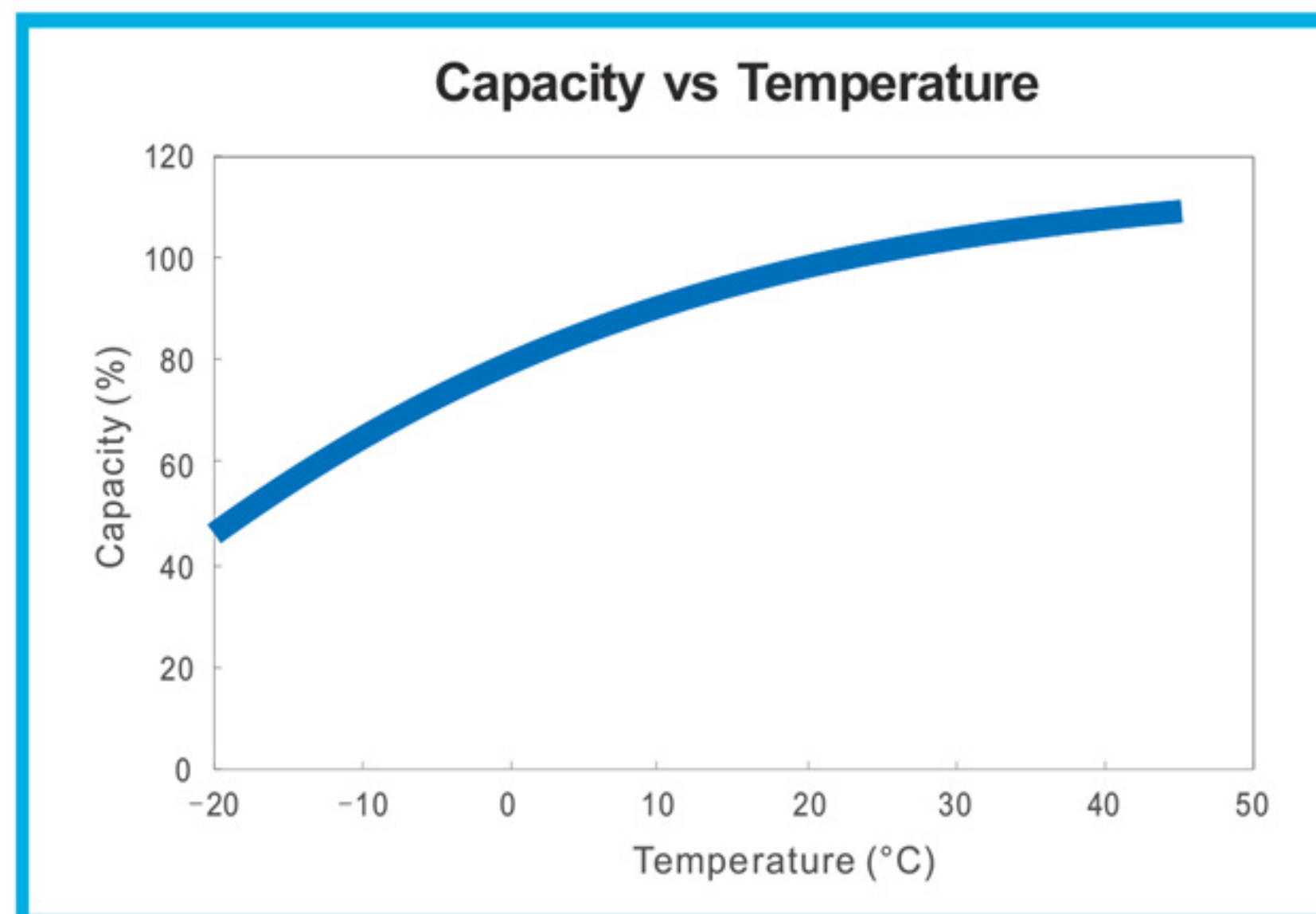
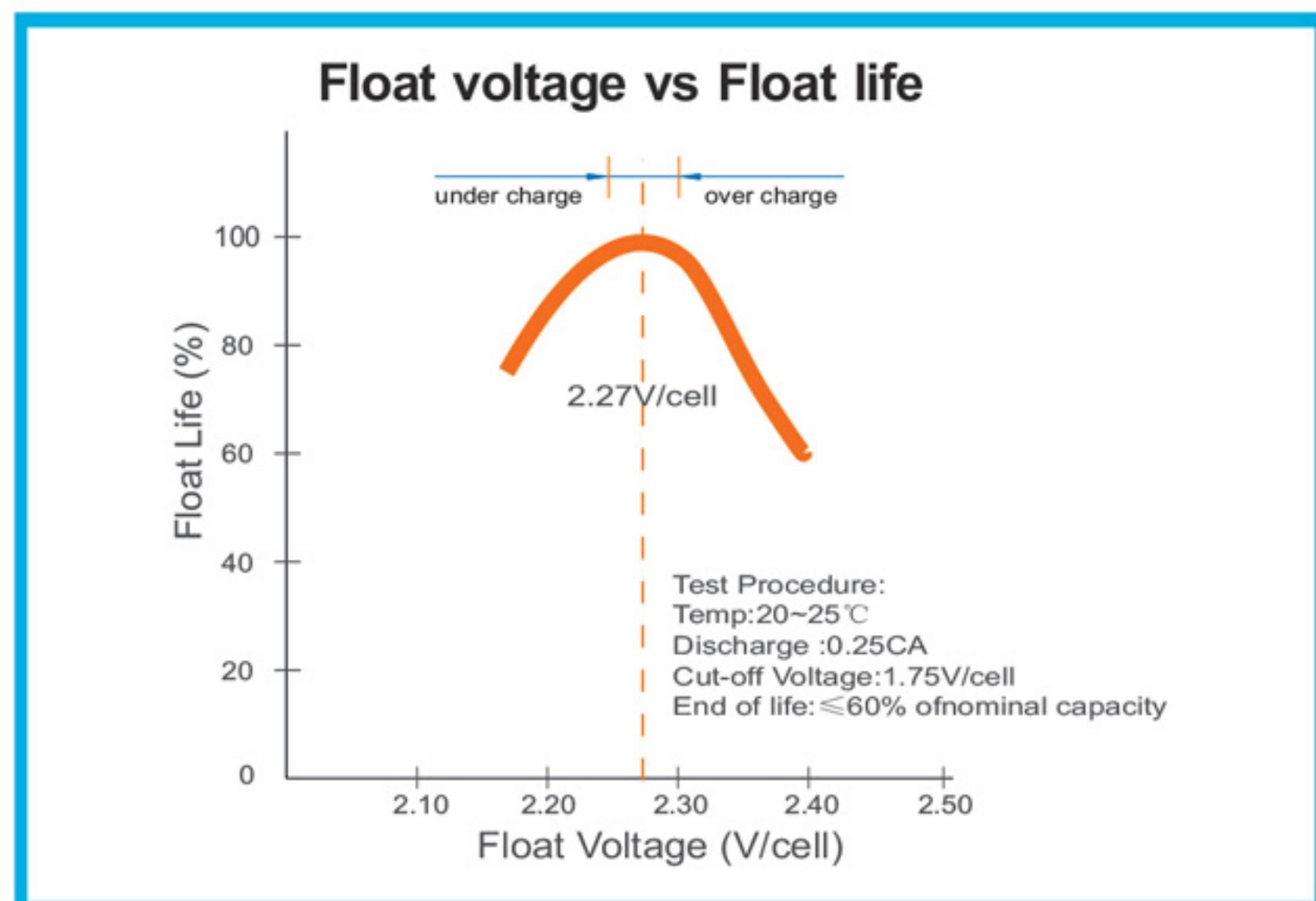
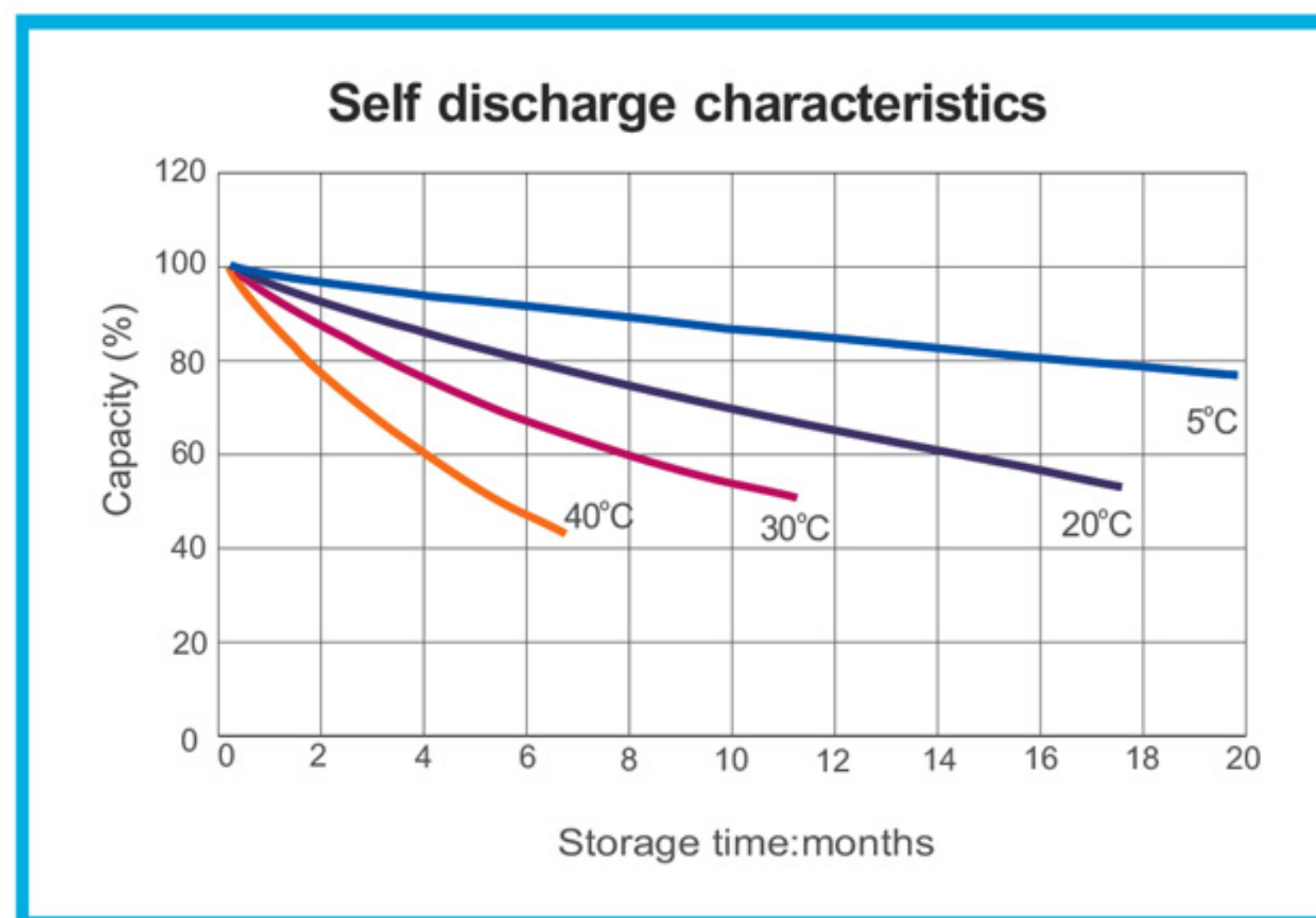
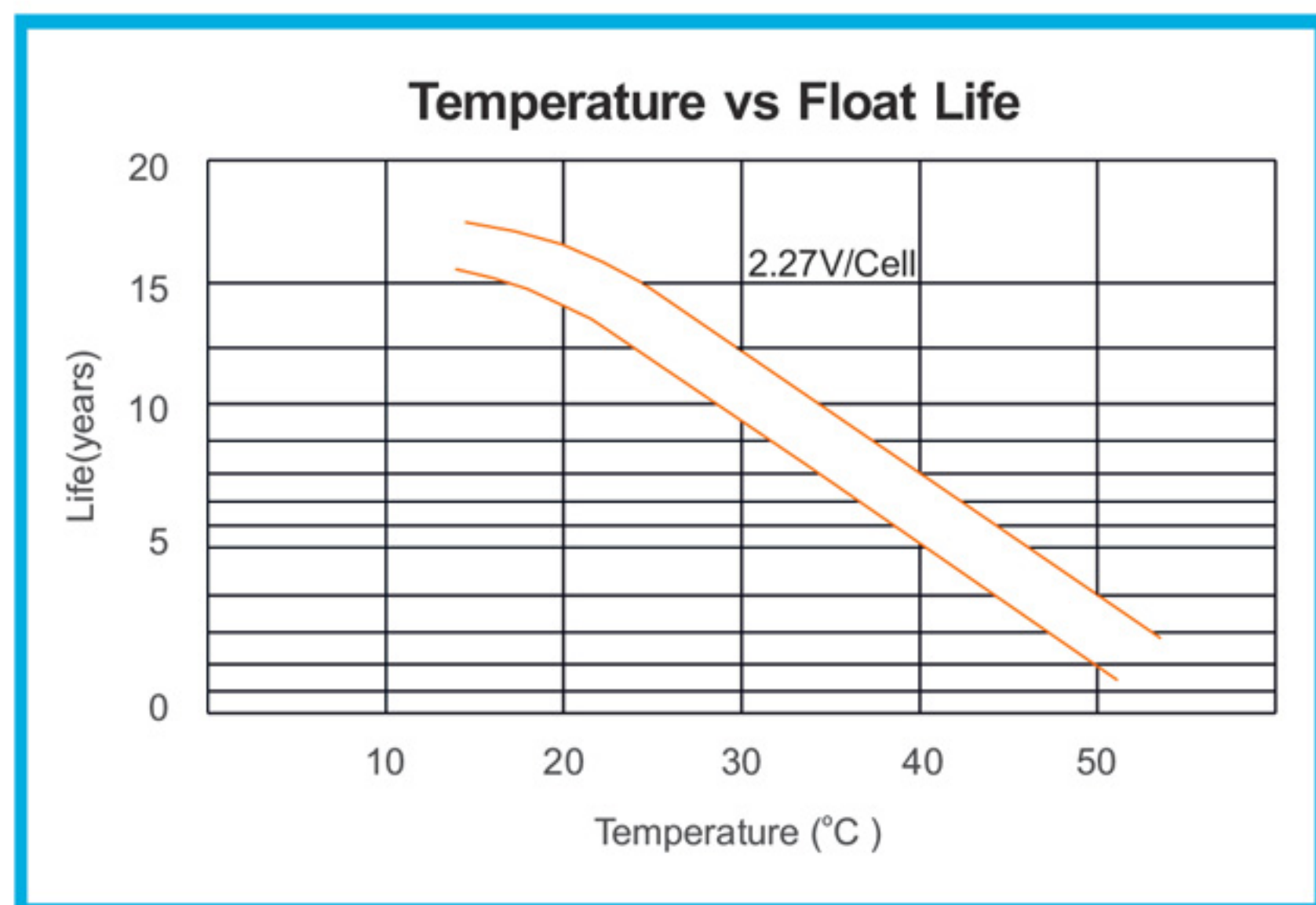
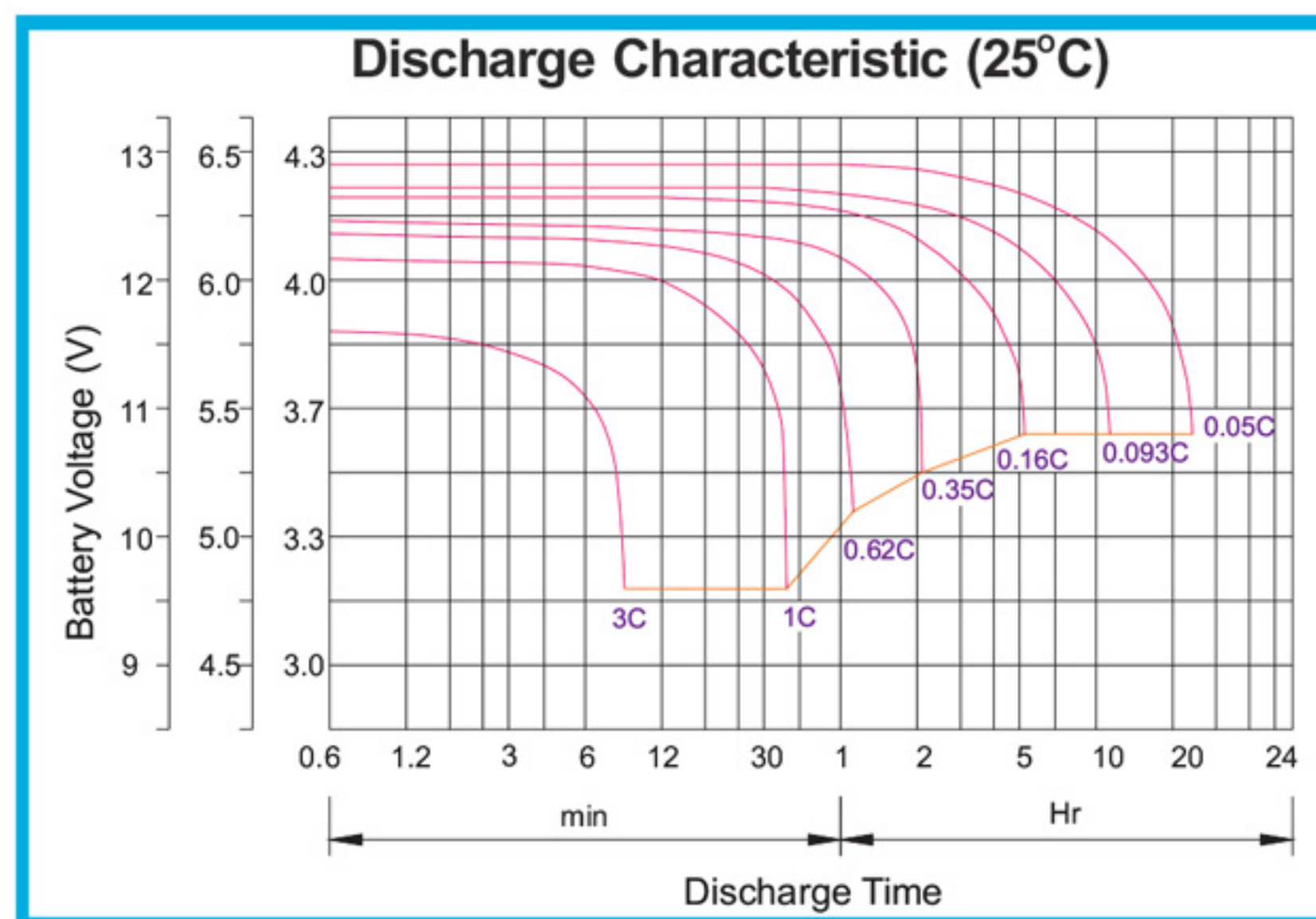
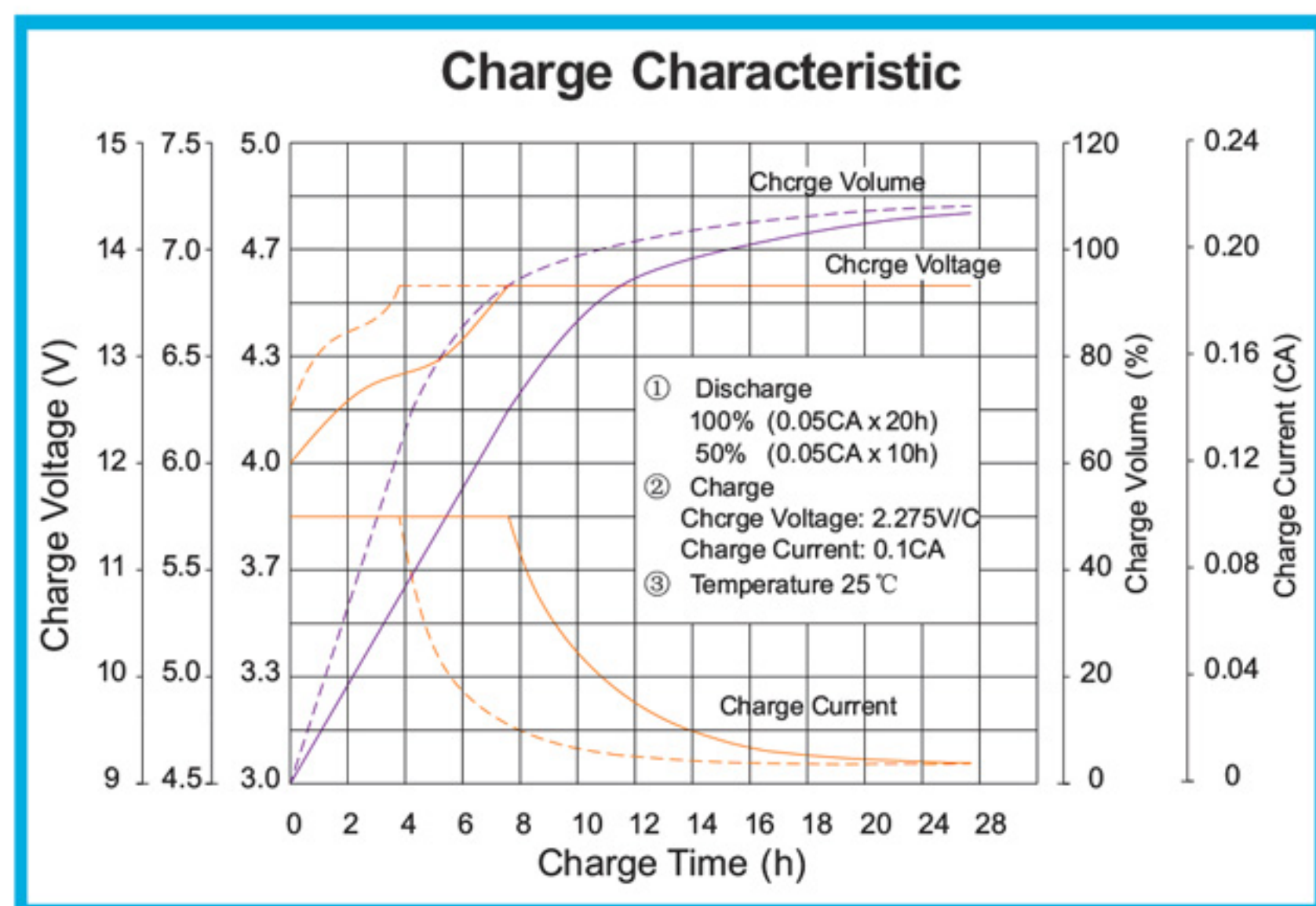
Constant Power Discharge Characteristics: W/cell (25°C)

F.V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	380	272	237	151	90.7	53.8	41.5	32.8	27.1	19.6	16.4	8.54
1.67V	344	253	225	145	88.9	53.2	41.2	32.3	26.8	19.5	16.3	8.52
1.70V	311	233	215	141	87.4	52.9	41.0	32.2	26.9	19.5	16.2	8.51
1.75V	273	219	201	137	86.3	52.4	40.7	32.1	26.8	19.2	16.1	8.44
1.80V	245	201	190	132	83.0	51.3	40.3	31.7	26.7	19.0	15.9	8.47
1.85V	213	183	175	126	81.4	49.8	38.8	31.0	25.6	18.4	15.4	8.04

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FT (Front Terminal) Battery Series
Gel VRLA Battery. 12V - 80Ah

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≤I<0.6C	0.6C≤I<1.0C	I≥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: -5mV/ °C/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.