

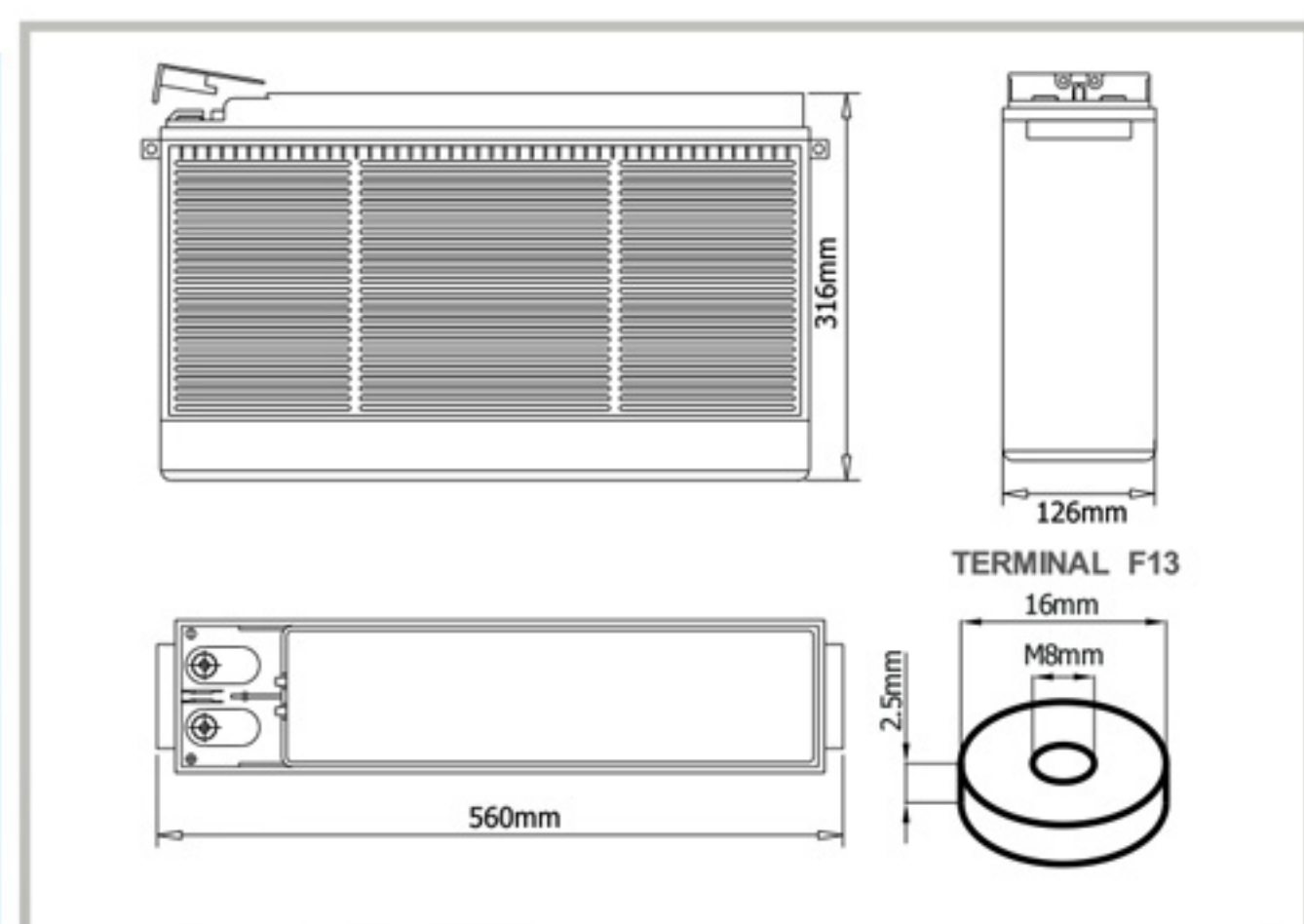
FT180

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-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



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Nominal Voltage (V)	12 (6 cells per unit)
Designed Floating Life (20°C)	15 Years
Nominal Capacity (20°C)	180 Ah @ 10HR-rate (to 1.80Vpc)
Dimension (mm)	L560mm x W126mm x H316mm
Approx. Weight	53.0 kg (116.9 lbs)
Terminal Type	Female Copper Insert M8 (torque:10~12N.m)
Internal Resistance	Approx. 0.004 Ohm (fully charged @ 20°C)
Max. Charge Current	45A
Max. Discharge Current (5S)	1000 A
Short Circuit Current	2800 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	486	341	293	184	109	64.4	49.4	38.9	32.0	23.0	19.1	9.90
1.67V	434	314	276	176	107	63.3	48.8	38.1	31.5	22.7	18.8	9.81
1.70V	387	285	260	169	104	62.5	48.3	37.7	31.4	22.5	18.6	9.72
1.75V	336	265	242	164	102	61.4	47.5	37.3	31.0	22.1	18.4	9.59
1.80V	298	241	226	156	97.2	59.6	46.6	36.4	30.6	21.6	18.0	9.54
1.85V	255	217	206	147	94.4	57.3	44.4	35.3	29.2	20.8	17.4	9.00

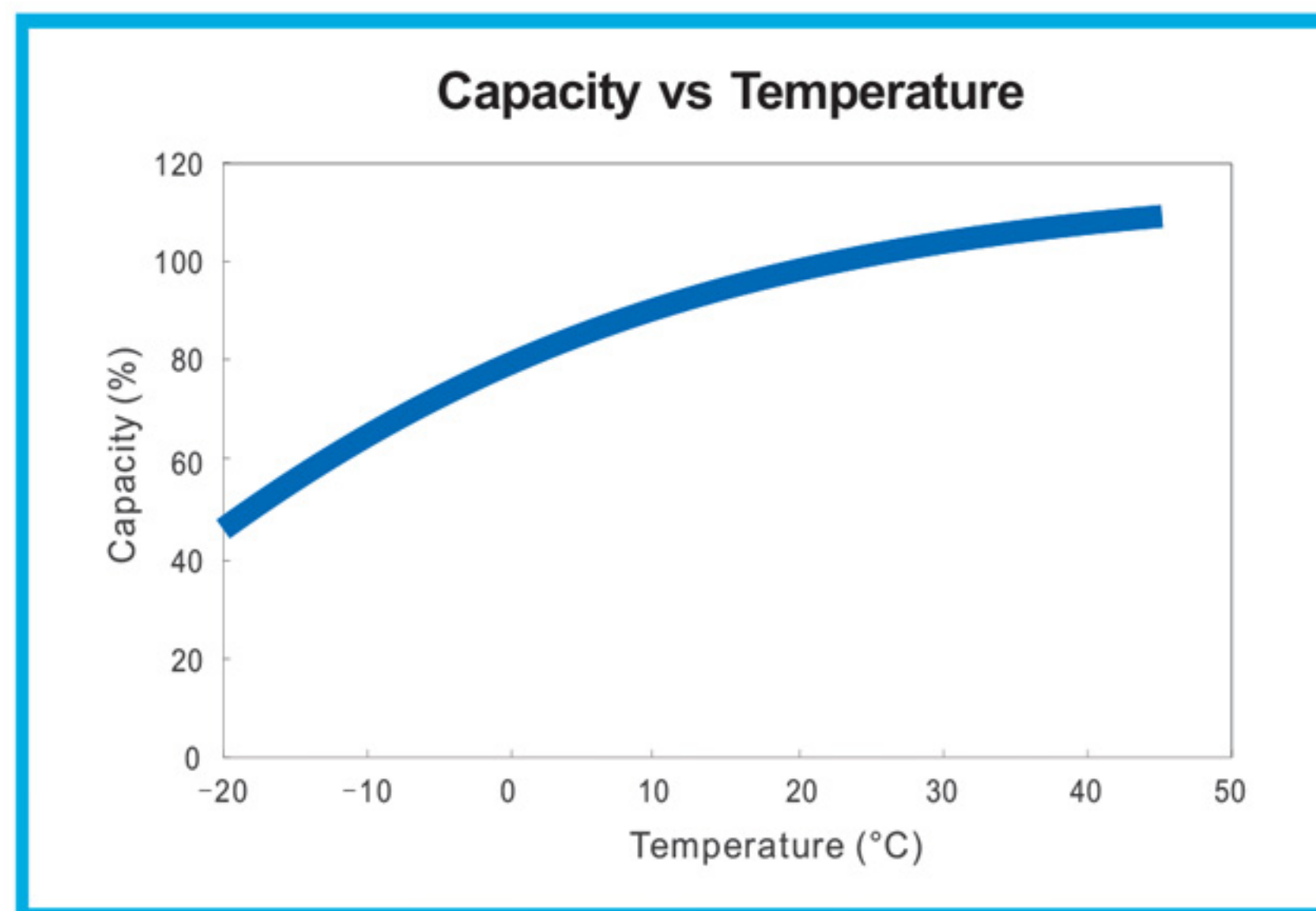
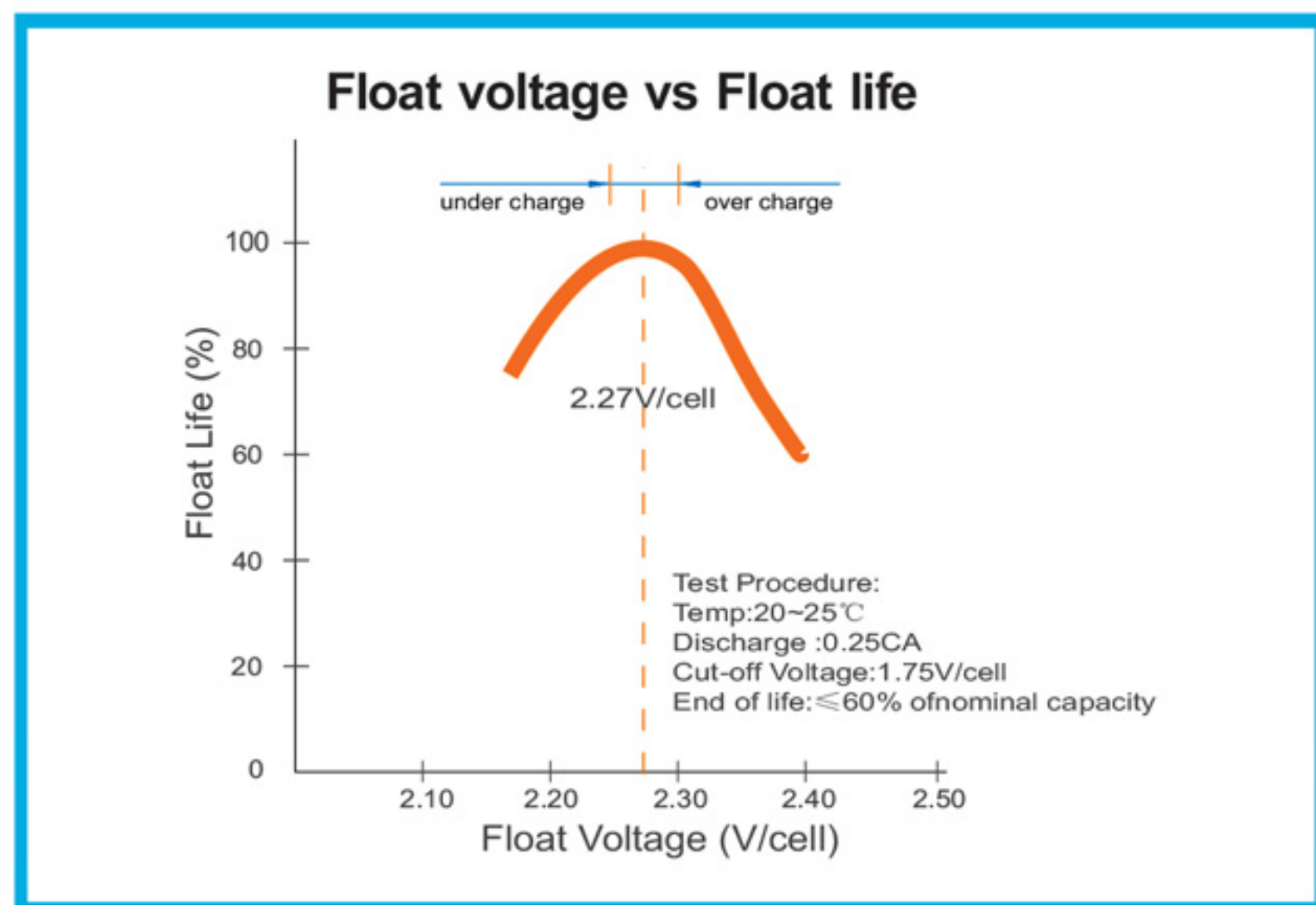
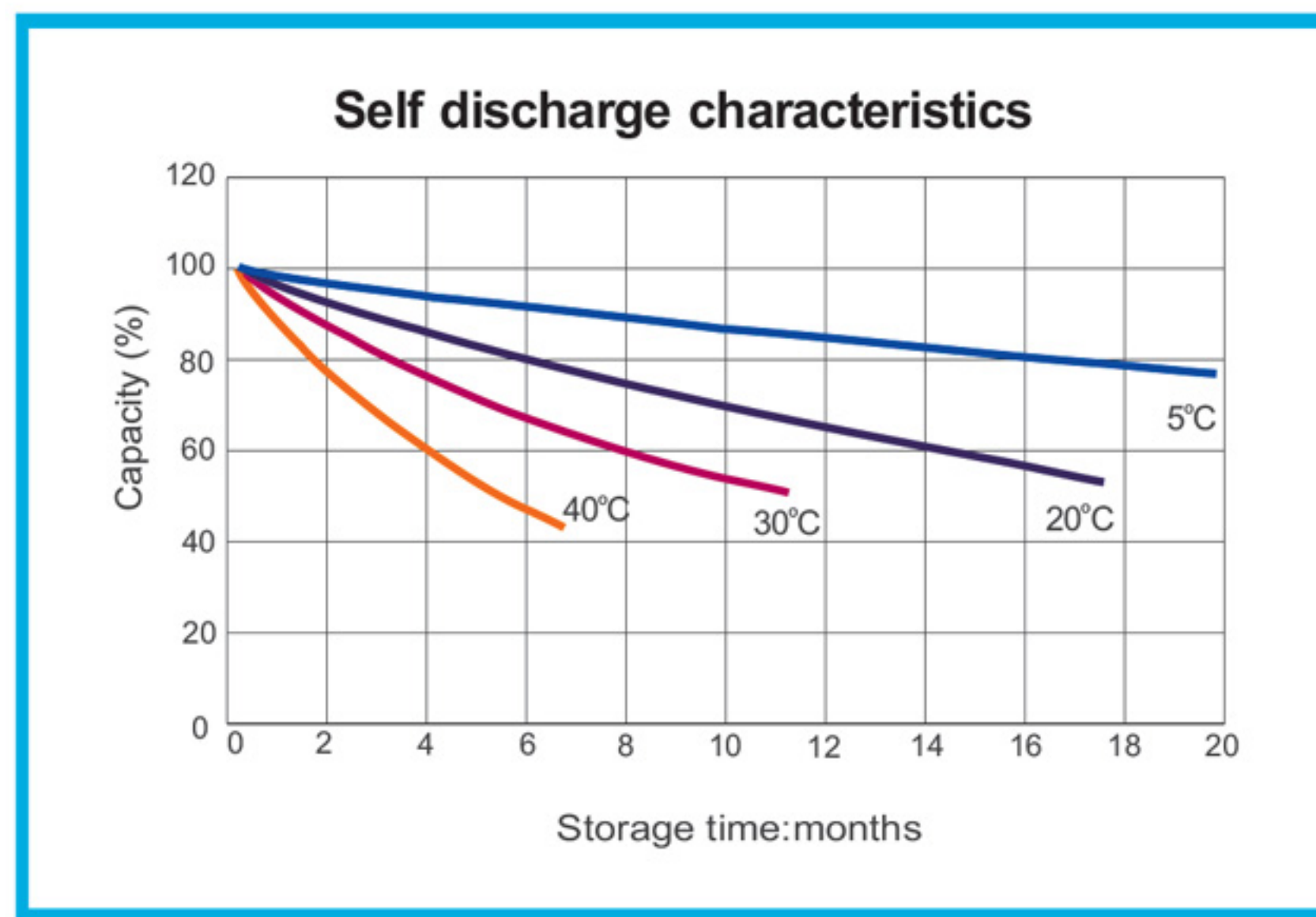
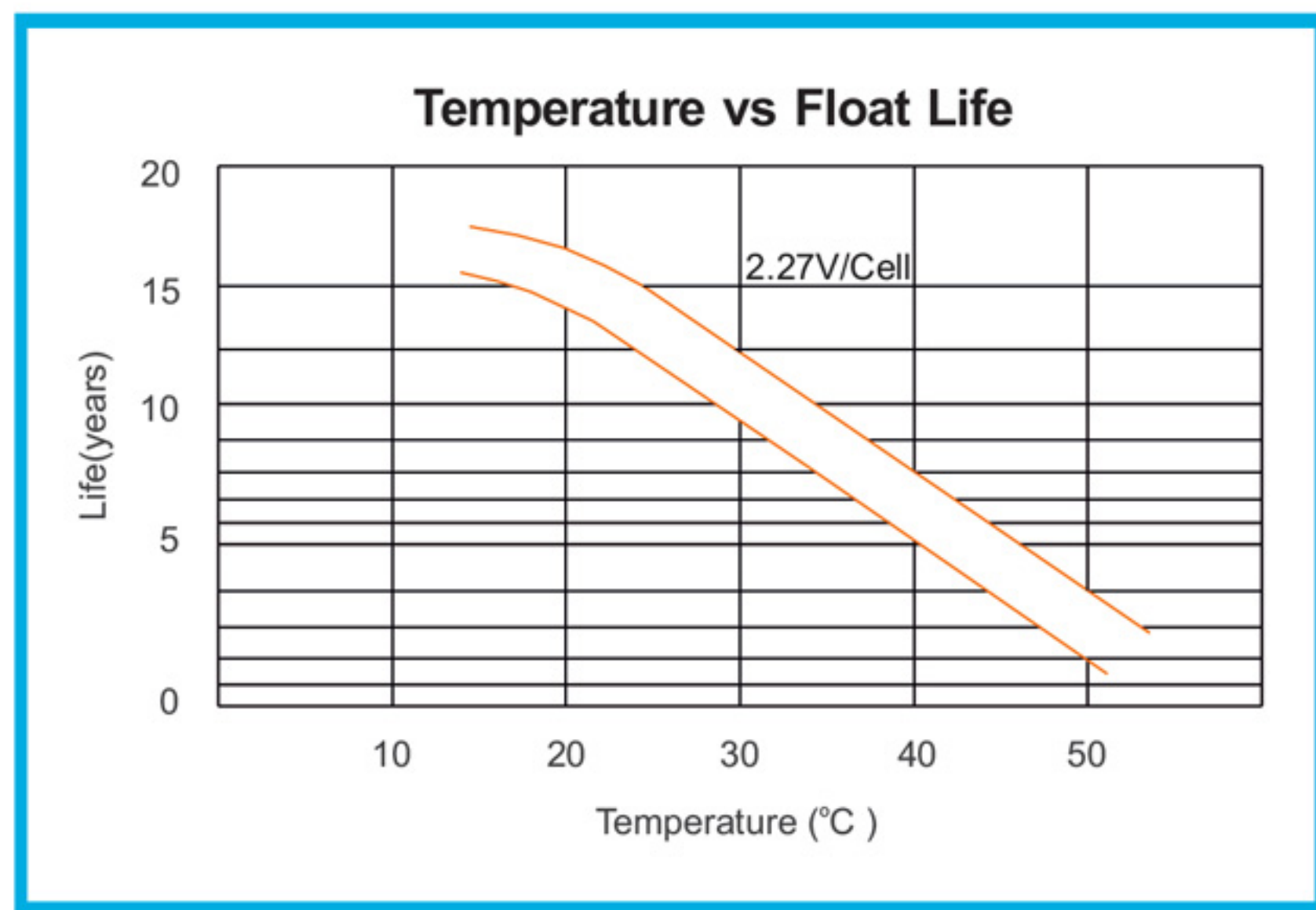
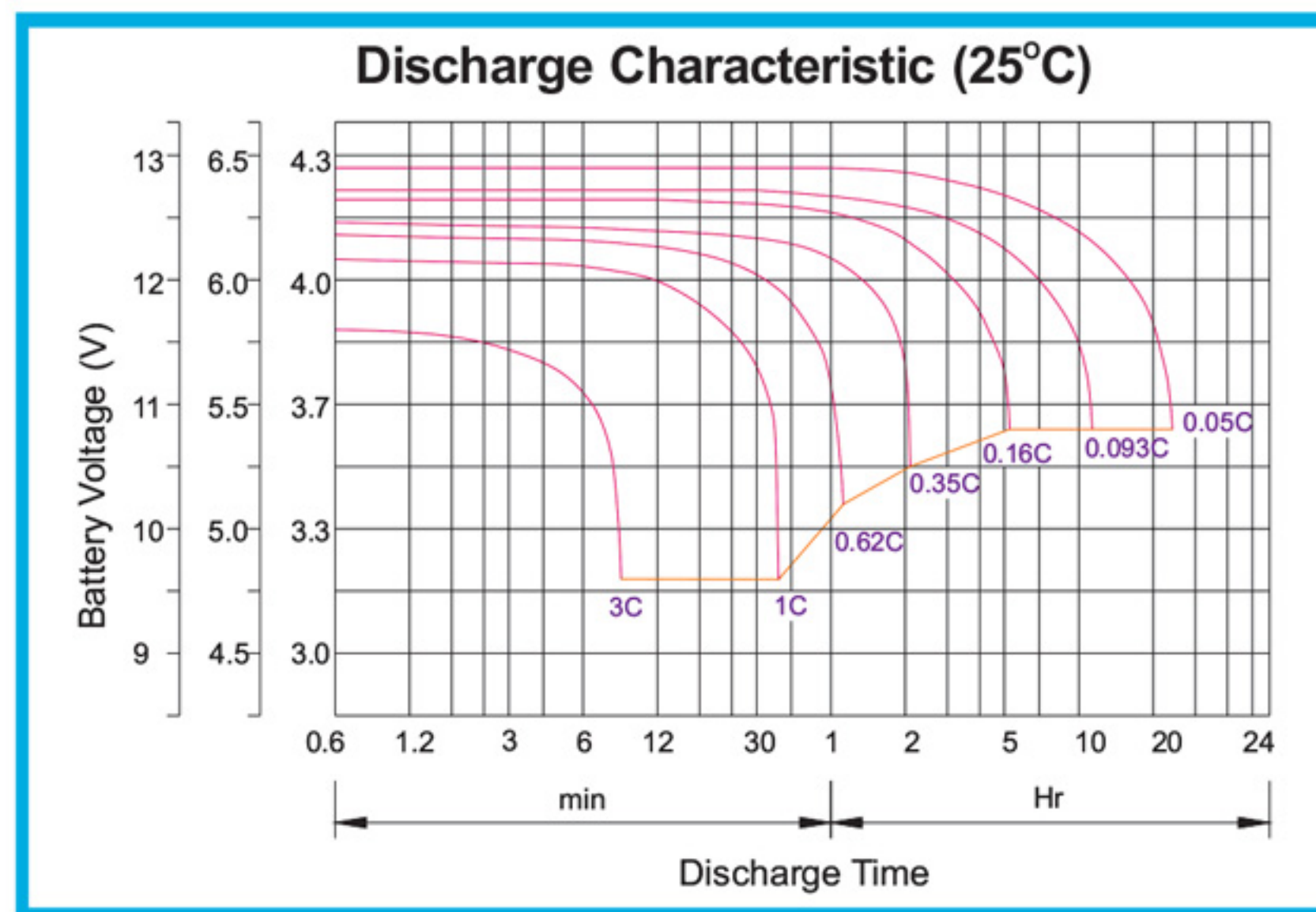
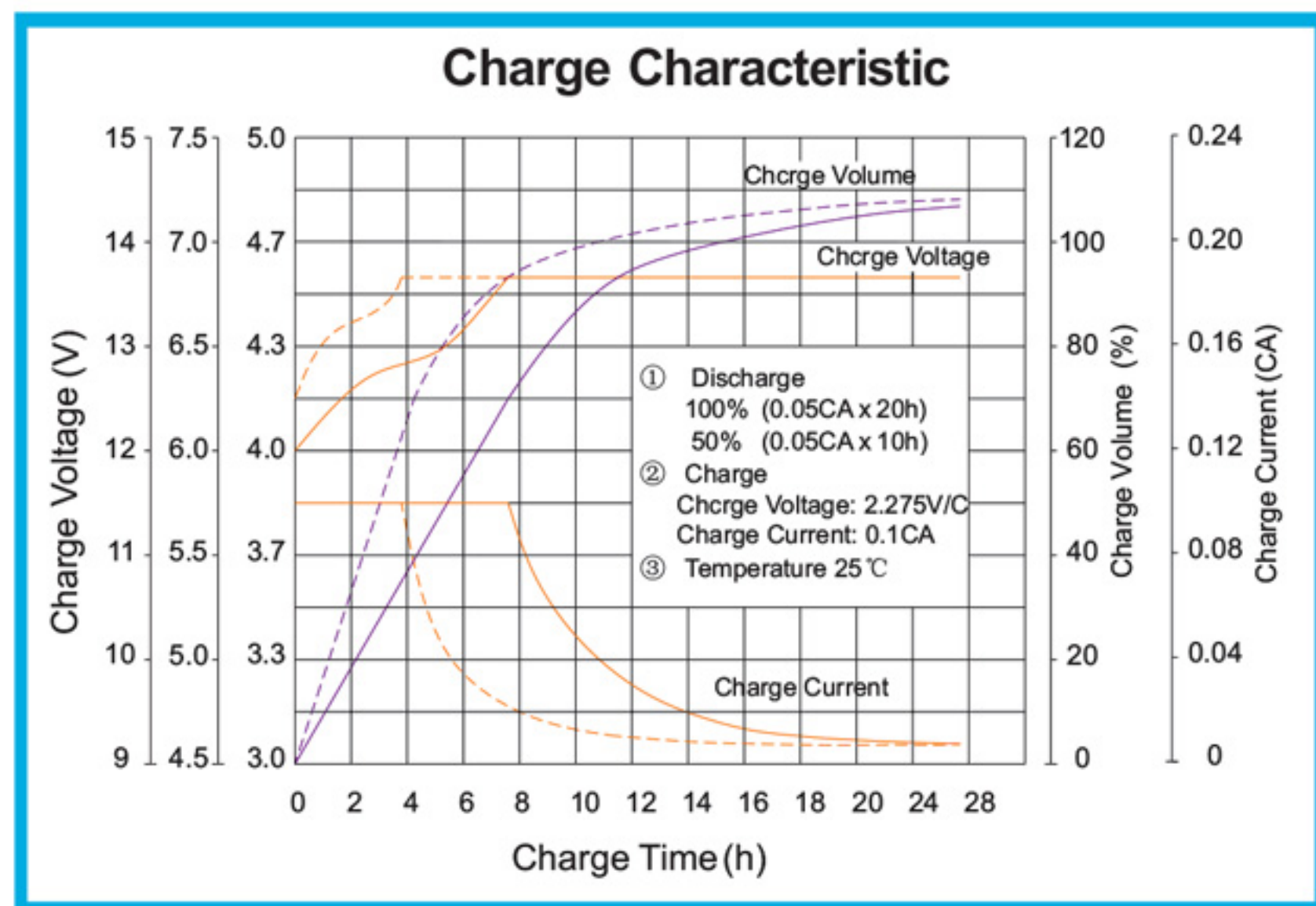
Constant Power Discharge Characteristics: W/cell (25°C)

F.V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	856	612	534	340	204	121	93.3	73.8	61.0	44.2	36.9	19.2
1.67V	773	570	507	327	200	120	92.8	72.7	60.3	43.9	36.6	19.2
1.70V	699	523	483	317	197	119	92.3	72.5	60.6	43.9	36.4	19.2
1.75V	615	492	453	309	194	118	91.7	72.3	60.3	43.3	36.2	19.0
1.80V	551	452	427	298	187	115	90.7	71.3	60.1	42.8	35.8	19.1
1.85V	480	412	393	284	183	112	87.2	69.7	57.7	41.5	34.7	18.1

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Gel VRLA Battery. 12V - 180Ah

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.