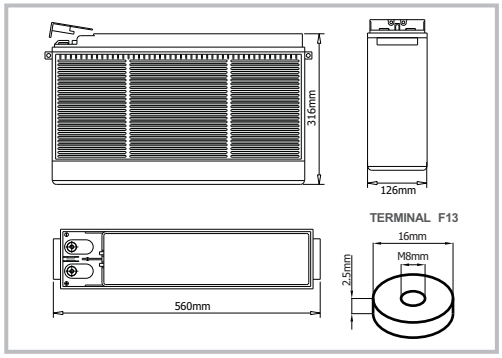
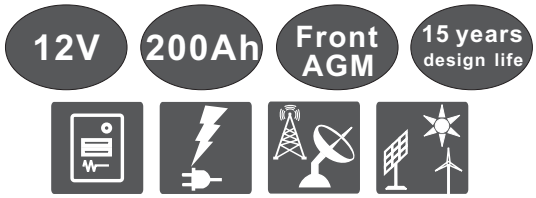
HX12-200FT (12V200Ah)

FRONT TERMINAL VRLA BATTERY

The Front Terminal Series is specially designed for telecommunication use with 15+ years design life in float service. By combining the newly developed paste formula with up-to-date AGM structures, this range features 15 years design life and Front Terminal connection for fast, easy installation and maintenance. This series is highly suited for telecom applications, UPS systems

BATTERY DIMENSIONS





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	57.0 kg (125.7 lbs)
Terminal Type	Female Copper Insert M8 (torque:10~12N.m)
Internal Resistance	Approx. 0.0041Ohm (fully charged @ 20°C)
Max. Charge Current	60A
Max. Discharge Current (5S)	2000 A
Short Circuit Current	2950 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	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

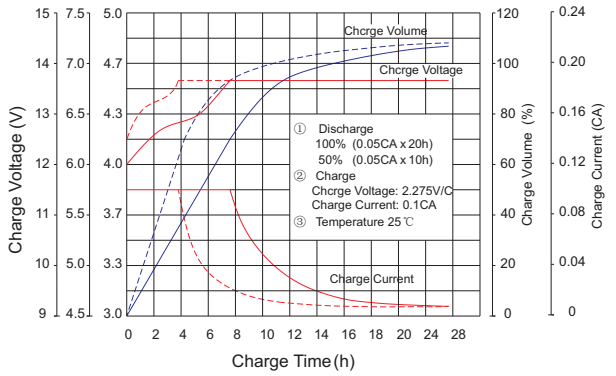
Constant Power Discharge Characteristics: W/cell (25°C)

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

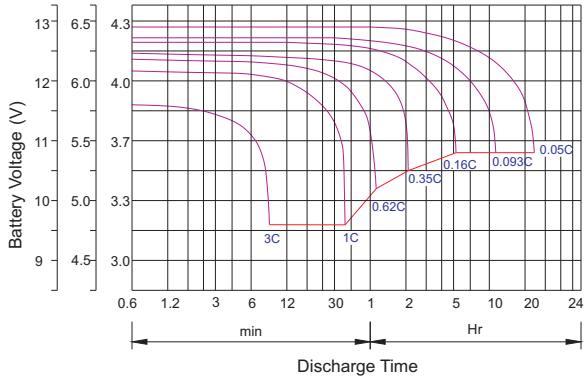
HX12-200FT (12V200Ah)

CHARACTERISTICS

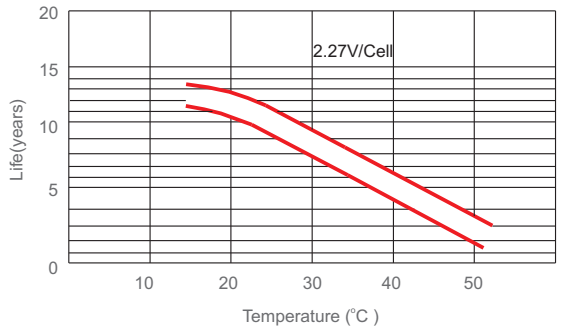
Charge Characteristic



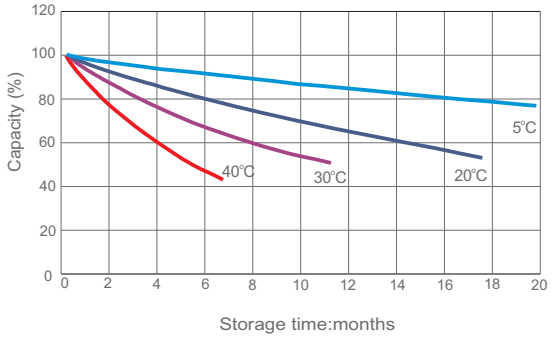
Discharge Characteristic (25°C)



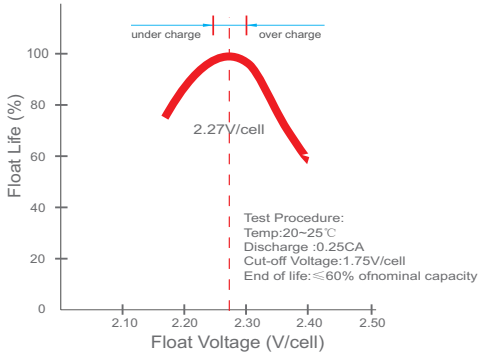
Temperature vs Float Life



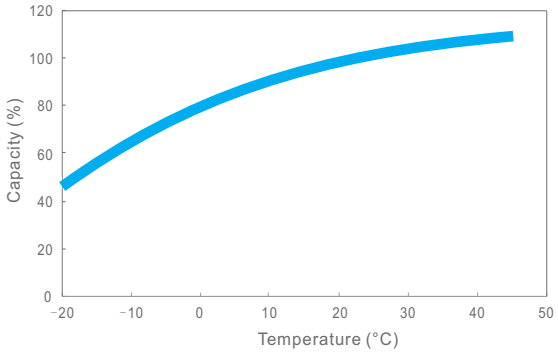
Self discharge characteristics



Float voltage vs Float life



Capacity vs Temperature



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

Float Service:
※ Every month, recommend inspection every battery voltage.
※ Every three months, recommend equalization charge for one time.
Equalization charge method:
Discharge: 100% rate capacity discharge.
Charge: Max. current 0.3CA, constant voltage 2.4-2.45V/Cell charge 24h.
※ Effect of temperature on float charge voltage: -3mV/ °C/Cell.
※ Length of service life will be directly affected by the number of discharge cycles, depth of discharge, ambient temperature and charging voltage.

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