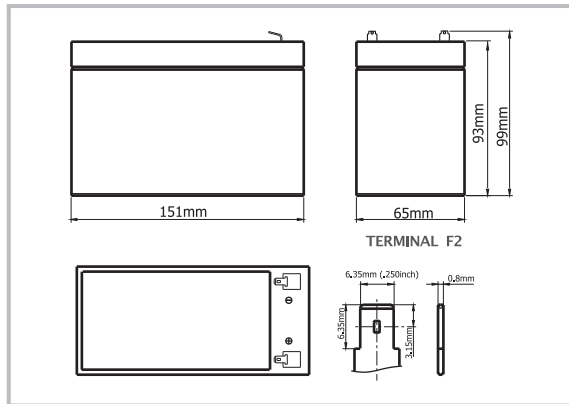


# WEIDA HX12-9

(12V9Ah) – HX General Series VRLA Battery

powermode

## BATTERY DIMENSIONS



HX series offers 5 years full maintenance free design life. With optimum design and good reliability, this series is highly suited for security and alarm systems, UPS systems, emergency light systems and other small backup applications.

## TECHNICAL SPECIFICATIONS

Nominal Voltage (V)	12 (6 cells per unit)
Designed Floating Life (20° C)	5 Years
Nominal Capacity (25° C)	9 Ah @ 20HR-rate (to 1.75Vpc)
Dimension (mm)	L151mm x W65mm x H99mm
Approx. Weight	2.5 kg (5.51 lbs)
Terminal Type	Fasten Tab F2
Internal Resistance	Approx. 0.017 Ohm (fully charged @ 25°C)
Max. Charge Current	2.7 A
Max. Discharge Current (5S)	135 A
Short Circuit Current	720 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

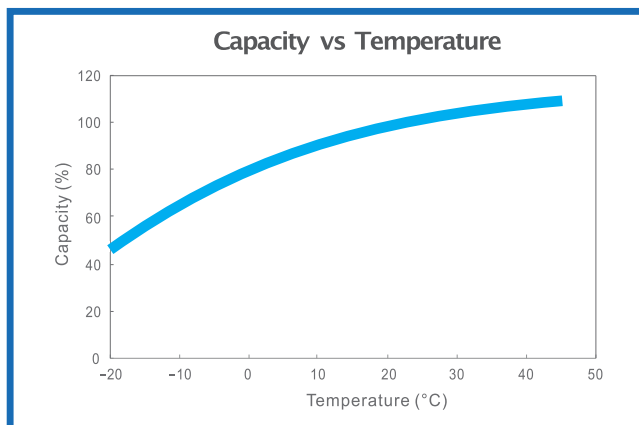
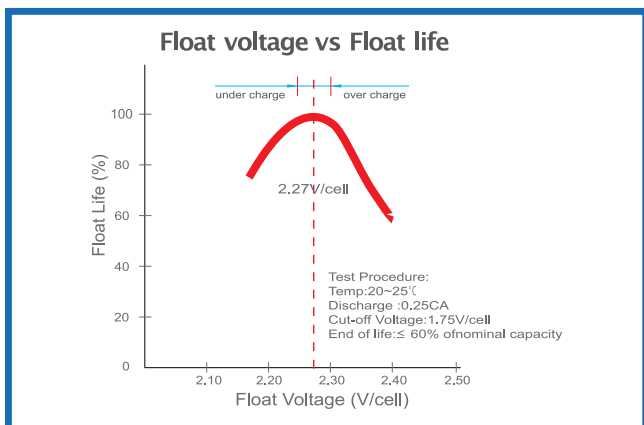
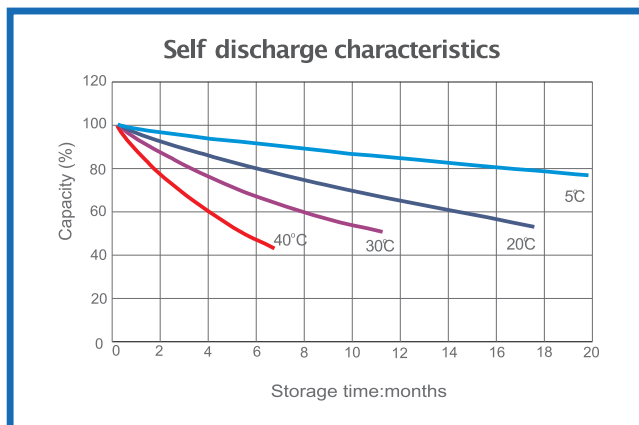
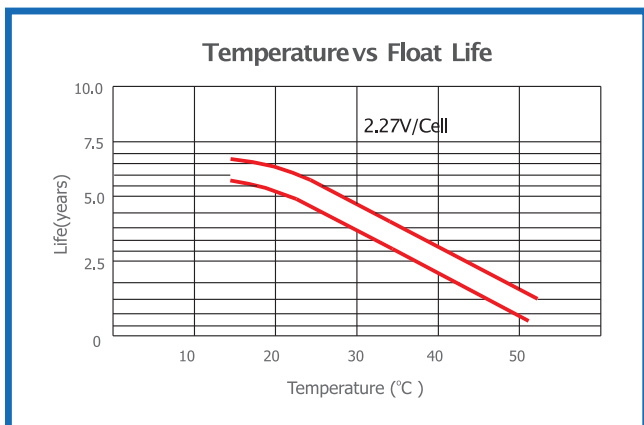
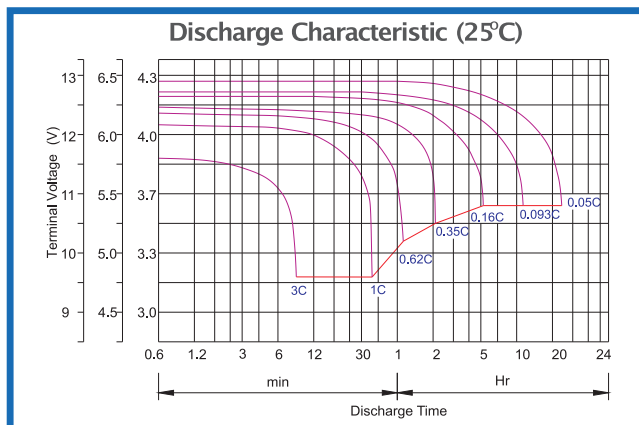
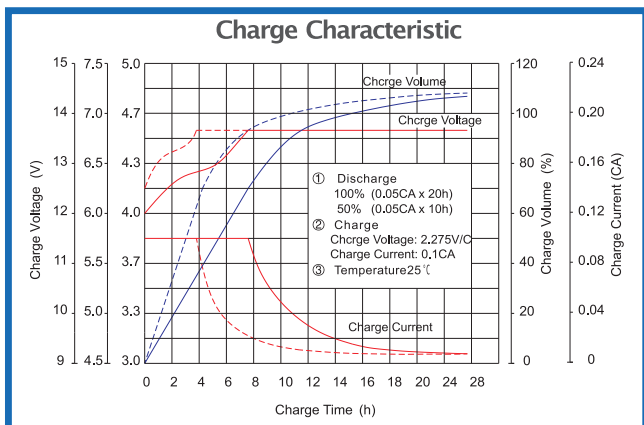
- IEC 61056
- UL1989
- JIS C8702
- GB/T19639

## 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	36.1	22.4	17.1	10.16	5.92	3.51	2.51	1.96	1.62	1.09	0.89	0.48
1.67V	33.5	21.6	16.5	9.92	5.85	3.47	2.48	1.93	1.60	1.08	0.88	0.47
1.70V	31.1	20.7	16.1	9.75	5.76	3.43	2.46	1.91	1.58	1.07	0.87	0.46
1.75V	28.4	19.8	15.7	9.52	5.66	3.39	2.43	1.89	1.56	1.06	0.86	0.45
1.80V	25.4	18.7	15.3	9.35	5.54	3.34	2.40	1.86	1.54	1.04	0.85	0.44
1.85V	22.5	17.6	14.9	9.17	5.46	3.29	2.37	1.84	1.52	1.03	0.84	0.43

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	63.5	40.2	31.1	18.8	11.0	6.59	4.73	3.72	3.08	2.10	1.72	0.93
1.67V	59.8	39.2	30.3	18.4	10.9	6.55	4.71	3.68	3.06	2.09	1.71	0.92
1.70V	56.1	37.9	29.8	18.3	10.8	6.54	4.70	3.67	3.05	2.08	1.70	0.91
1.75V	51.8	36.7	29.4	18.0	10.7	6.50	4.69	3.66	3.03	2.07	1.69	0.89
1.80V	47.1	35.0	28.9	17.8	10.6	6.47	4.67	3.64	3.02	2.06	1.68	0.88
1.85V	42.3	33.4	28.5	17.6	10.5	6.43	4.65	3.62	3.00	2.05	1.66	0.86

## CHARACTERISTICS



### Discharge Current VS. Discharge Voltage

Final Discharge Voltage V/cell	1.75V	1.70V	1.60V
Discharge Current (A)	(A) ≤ 0.2C	0.2C < (A) < 1.0C	(A) ≥ 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 0.3CA
Constant Current	0.2Cx2h+0.1CAx12h
Fast	0.2Cx2h+0.3CAx4.0h

### Maintenance & Cautions

<b>Float Service:</b>
※ 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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