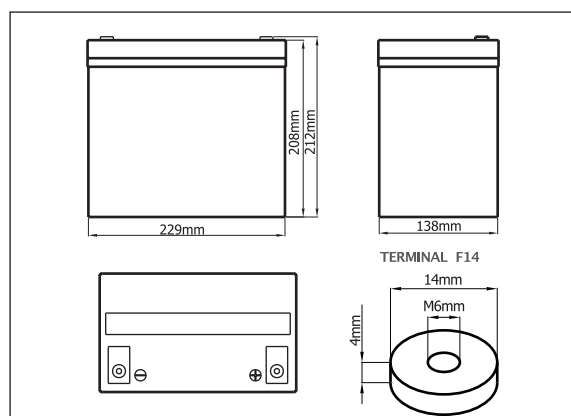


WEIDA HX12-50

(12V50Ah) – HX General Series VRLA Battery

powermode

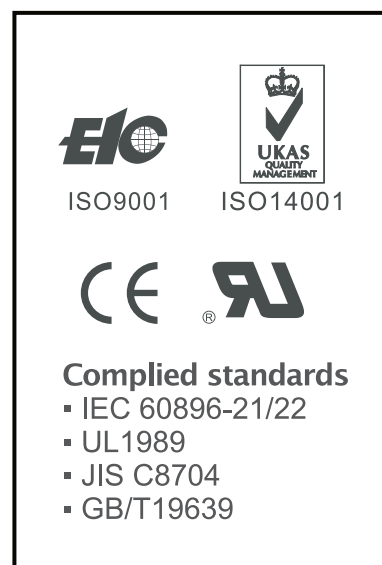
BATTERY DIMENSIONS



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)	12 Years
Nominal Capacity (20°C)	50 Ah @ 10HR-rate (to 1.80Vpc)
Dimension (mm)	L229mm x W138mm x H212mm
Approx. Weight	15.5 kg (34.2 lbs)
Terminal Type	Female Copper Insert M6 (torque:6~7N.m)
Internal Resistance	Approx. 0.0062 Ohm (fully charged @ 20°C)
Max. Charge Current	15A
Max. Discharge Current (5S)	500 A
Short Circuit Current	1930 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)



Complied standards

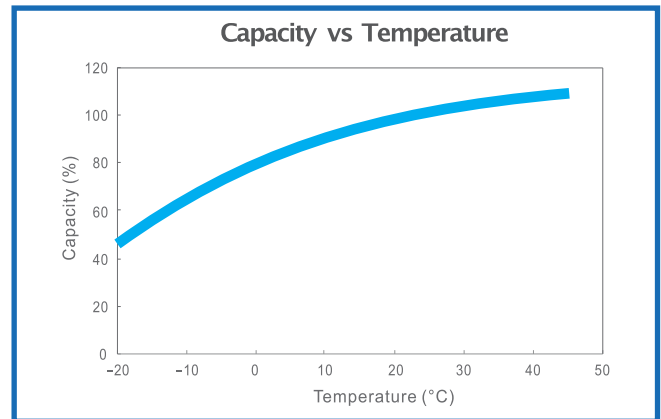
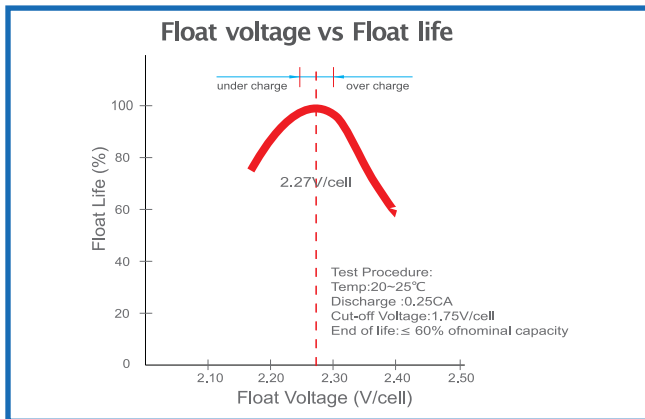
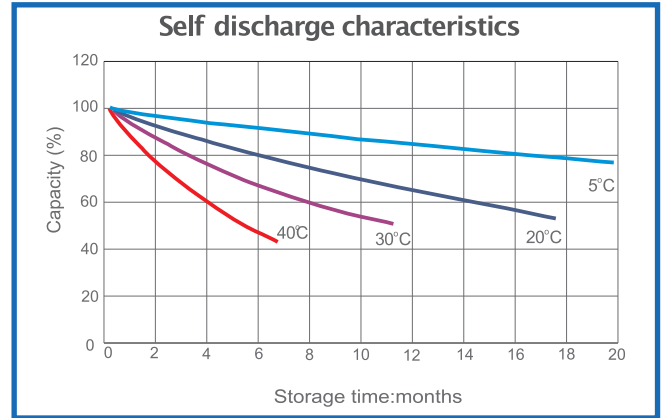
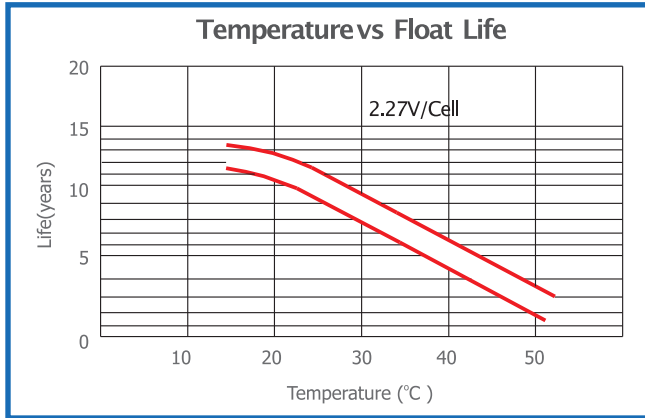
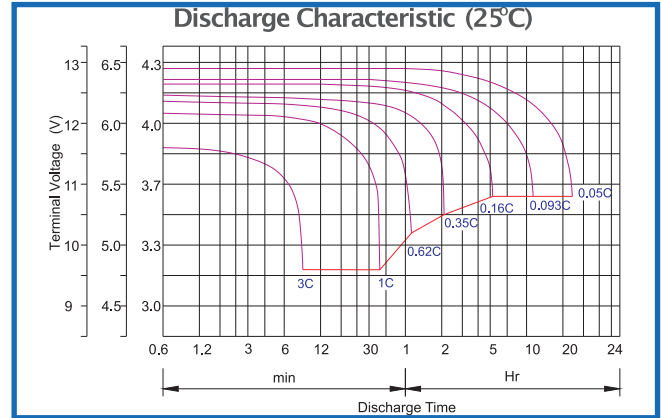
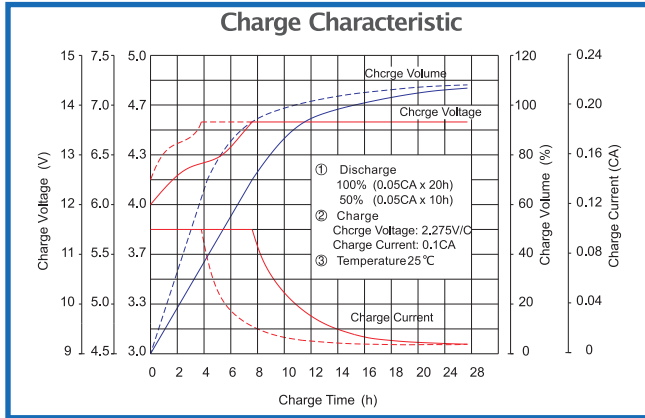
- IEC 60896-21/22
- UL1989
- JIS C8704
- GB/T19639

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	150	111	91.4	56.3	33.8	19.6	14.2	11.3	9.41	6.43	5.30	2.86
1.67V	134	102	86.1	53.8	32.9	19.3	14.0	11.1	9.28	6.34	5.24	2.79
1.70V	119	92.7	81.4	51.8	32.1	19.0	13.8	11.0	9.21	6.26	5.17	2.73
1.75V	104	86.1	75.5	50.0	31.5	18.7	13.6	10.9	9.09	6.18	5.10	2.68
1.80V	91.8	78.3	70.5	47.8	30.5	18.3	13.4	10.7	8.87	6.03	5.00	2.62
1.85V	78.6	70.5	64.2	45.1	29.1	17.6	12.9	10.4	8.66	5.90	4.87	2.56

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	264	199	167	104	63.0	36.9	26.7	21.4	17.9	12.3	10.3	5.54
1.67V	239	185	158	100	61.7	36.4	26.6	21.3	17.8	12.2	10.2	5.45
1.70V	216	170	151	97.0	60.7	36.2	26.5	21.2	17.7	12.1	10.1	5.37
1.75V	190	160	142	94.4	59.9	35.9	26.3	21.1	17.6	12.0	10.0	5.30
1.80V	170	147	133	91.1	58.5	35.5	26.0	20.8	17.4	11.9	9.93	5.24
1.85V	148	134	123	86.8	56.5	34.4	25.4	20.4	17.1	11.8	9.73	5.15

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

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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