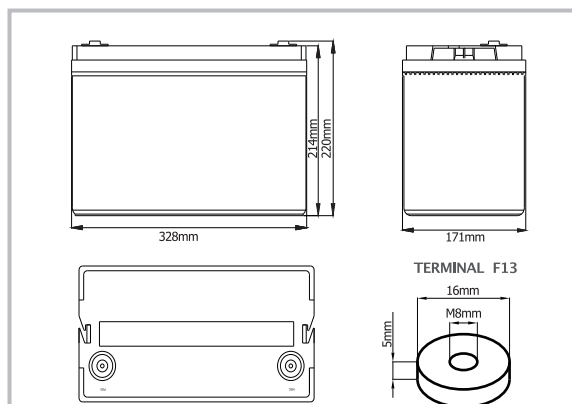


WEIDA HX12-100

(12V100Ah) – HX General Series VRLA Battery

powermode

BATTERY DIMENSIONS



HX Middle Size Series battery is a range of long life batteries, by combining a newly developed corrosion resistance alloy and advanced curing process. The range features top termination and offers 12 years design life. This battery series is highly suited to UPS systems, switchgear, CATV and telecommunication systems applications.

TECHNICAL SPECIFICATIONS

Nominal Voltage (V)	12 (6 cells per unit)
Designed Floating Life (20°C)	12 Years
Nominal Capacity (20°C)	100 Ah @ 10HR-rate (to 1.80Vpc)
Dimension (mm)	L328mm x W171mm x H220mm
Approx. Weight	29.5 kg (65.1 lbs)
Terminal Type	Female Copper Insert M8 (torque:10~12N.m)
Internal Resistance	Approx. 0.0045 Ohm (fully charged @ 20°C)
Max. Charge Current	30A
Max. Discharge Current (5S)	800 A
Short Circuit Current	2600 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

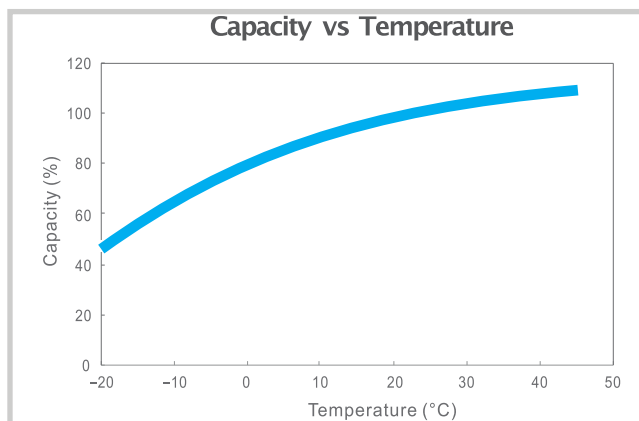
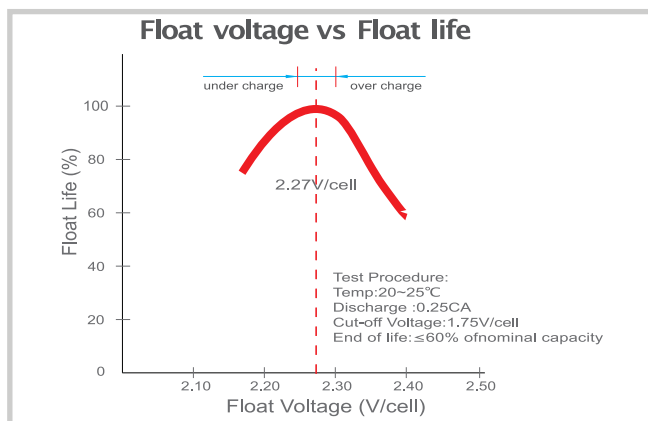
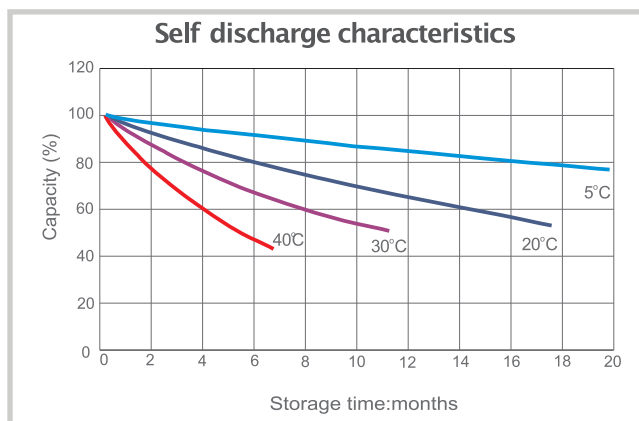
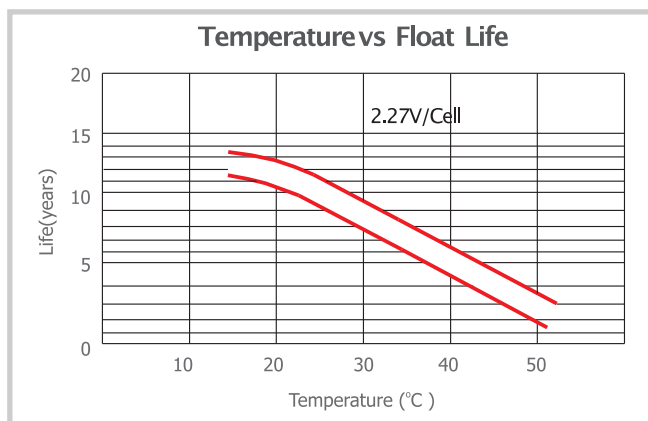
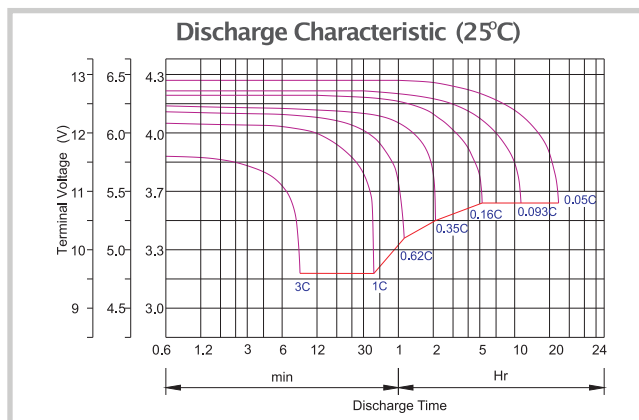
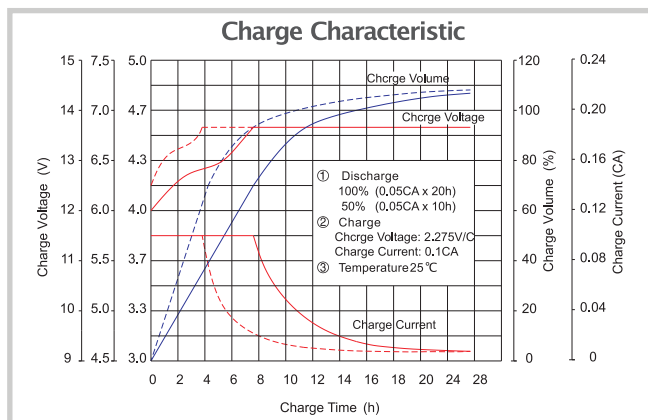
- IEC 60896-21/22
- UL1989
- JIS C8704
- GB/T19639

BATTERY DISCHARGE TABLE

Constant Current Discharge Characteristics: Amps (25°C)												
F.V /Time	5m in	10m in	15m in	30m in	1 h	2 h	3 h	4 h	5 h	8 h	10h	20h
1.60V	300	221	183	113	67.6	39.3	28.3	22.6	18.8	12.9	10.6	5.71
1.67V	268	204	172	108	65.8	38.6	28.0	22.3	18.6	12.7	10.5	5.58
1.70V	239	185	163	104	64.3	38.1	27.7	22.1	18.4	12.5	10.3	5.45
1.75V	208	172	151	100	63.0	37.4	27.2	21.8	18.2	12.4	10.2	5.35
1.80V	184	157	141	95.6	60.9	36.6	26.7	21.3	17.7	12.1	10.0	5.25
1.85V	157	141	128	90.2	58.3	35.2	25.8	20.7	17.3	11.8	9.74	5.13

Constant Power Discharge Characteristics: W/cell (25°C)												
F.V /Time	5m in	10m in	15m in	30m in	1 h	2 h	3 h	4 h	5 h	8 h	10h	20h
1.60V	528	398	333	208	126	73.7	53.5	42.8	35.8	24.7	20.5	11.1
1.67V	477	370	316	200	123	72.9	53.2	42.5	35.6	24.5	20.3	10.9
1.70V	431	340	302	194	121	72.5	52.9	42.4	35.5	24.4	20.2	10.7
1.75V	380	320	283	189	120	71.8	52.6	42.3	35.4	24.3	20.1	10.6
1.80V	340	294	267	182	117	70.9	52.0	41.7	34.8	23.9	19.9	10.5
1.85V	296	268	245	174	113	68.8	50.7	40.8	34.3	23.5	19.5	10.3

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.

powermode

www.powermode.co.za
 power@powermode.co.za

Johannesburg

011 235 7750
 31E Lake Road
 Longmeadow Business Park North
 Modderfontein, 1609

Cape Town

021 552 4019
 Unit 1, Iberica Park
 11 Platinum Crescent
 Milnerton, 7441

Durban

011 235 7750
 28 Sagewood Way,
 Glen Anil,
 Durban, 4051