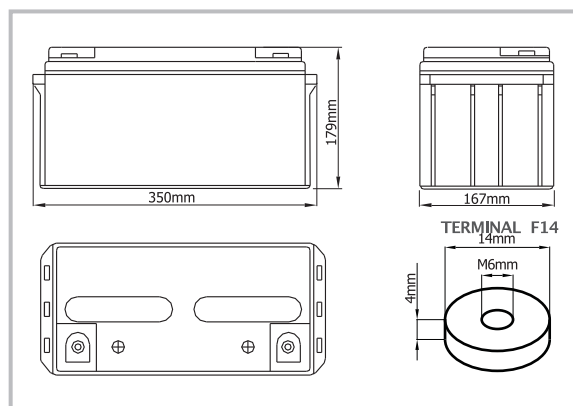


# WEIDA HX12-65

(12V65Ah) – HX General Series VRLA Battery

powermode

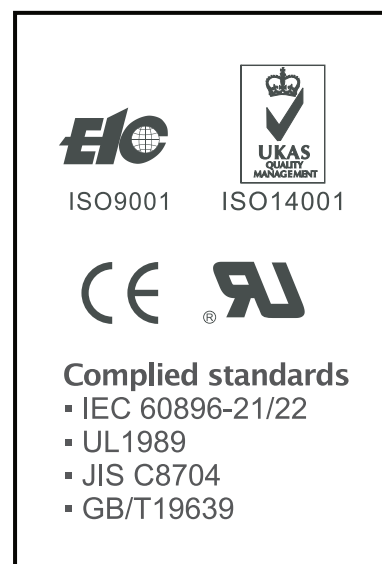
## BATTERY DIMENSIONS



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)	65 Ah @ 10HR-rate (to 1.80Vpc)
Dimension (mm)	L350mm x W167mm x H179mm
Approx. Weight	20.0 kg (44.1 lbs)
Terminal Type	Female Copper Insert M6 (torque:6~7N.m)
Internal Resistance	Approx. 0.006 Ohm (fully charged @ 20°C)
Max. Charge Current	19.5A
Max. Discharge Current (5S)	650 A
Short Circuit Current	2000 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)

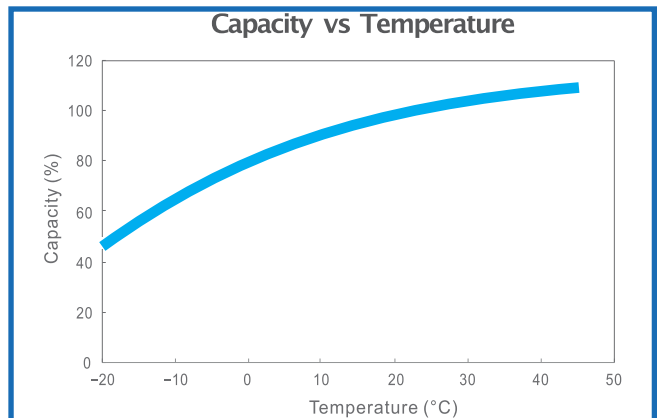
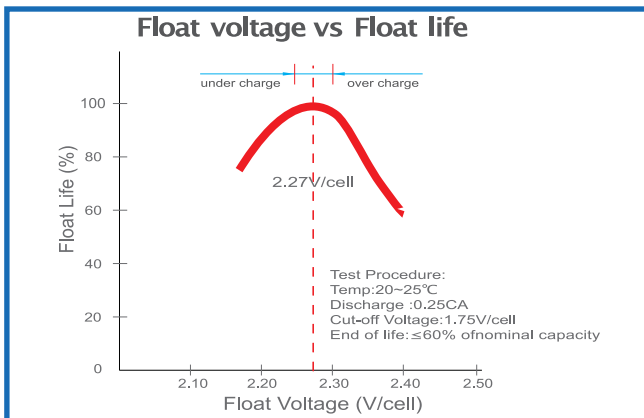
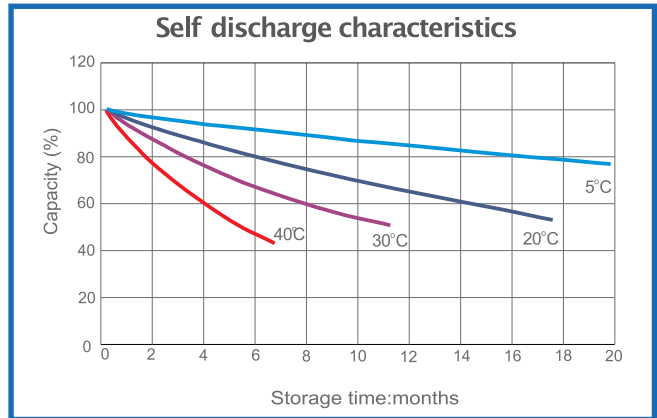
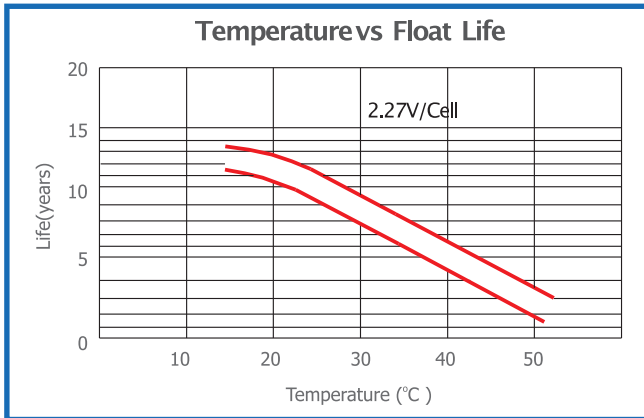
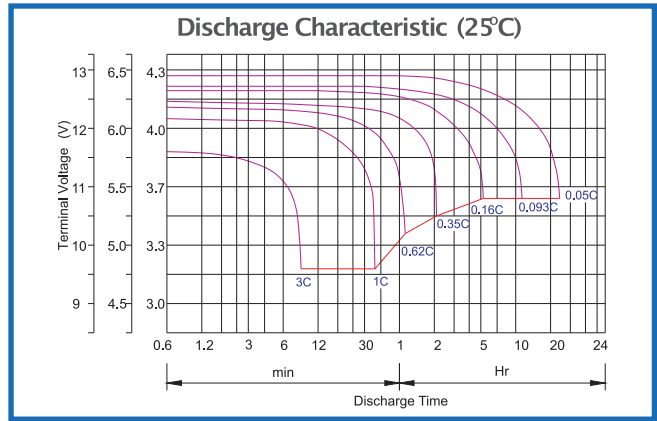
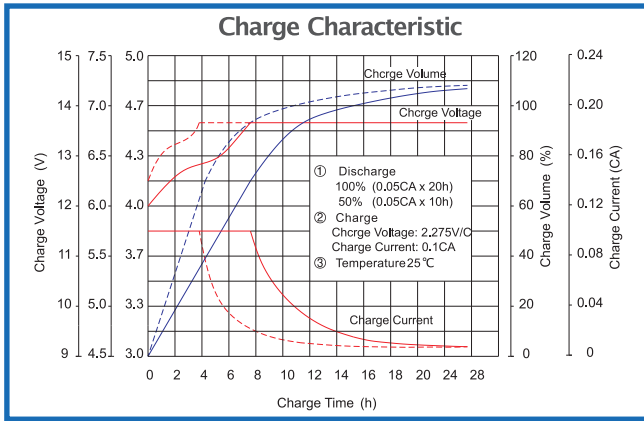


## BATTERY DISCHARGE TABLE

Constant Current Discharge Characteristics: Amps (25°C)												
F.V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	195	144	119	73.2	43.9	25.5	18.4	14.7	12.2	8.35	6.89	3.71
1.67V	174	133	112	69.9	42.8	25.1	18.2	14.5	12.1	8.24	6.81	3.63
1.70V	155	120	106	67.3	41.8	24.7	18.0	14.3	12.0	8.14	6.72	3.54
1.75V	135	112	98.2	65.0	40.9	24.3	17.7	14.2	11.8	8.03	6.63	3.48
1.80V	119	102	91.6	62.1	39.6	23.8	17.4	13.9	11.5	7.84	6.50	3.41
1.85V	102	91.6	83.5	58.6	37.9	22.9	16.8	13.5	11.3	7.67	6.33	3.33

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	343	259	217	135	81.9	47.9	34.8	27.8	23.3	16.1	13.3	7.20
1.67V	310	241	206	130	80.2	47.4	34.6	27.7	23.2	16.0	13.2	7.09
1.70V	280	221	196	126	78.9	47.1	34.4	27.6	23.1	15.9	13.1	6.99
1.75V	247	208	184	123	77.9	46.7	34.2	27.5	23.0	15.8	13.0	6.89
1.80V	221	191	173	118	76.0	46.1	33.8	27.1	22.6	15.5	12.9	6.81
1.85V	193	174	159	113	73.5	44.7	33.0	26.5	22.3	15.3	12.7	6.70

## 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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