



XELLEX BATTERY (HK) LIMITED

XELLEX BATTERY & POWER SUPPLY TECH. CO., LTD.

6LR61-9V-6AM6

TECHNICAL SPECIFICATIONS

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The Technical Specifications hereinafter is only applicable to the Greenergy Alkaline Zinc Manganese Dioxide 6LR61 9V type battery, which was provided by Xellex Battery Co., Ltd. All the practical technical data, which were used to describe Battery Performance involved in the Specifications are obtained from the relevant experiments to the products of Xellex. Rights reserved to take relevant rectifications or modifications to the structure and performance of the products without prior notice.

1.Scope

The Specifications is solely applicable to the “Xellex” Greenergy Alkaline Zinc Manganese Dioxide Battery---6LR61.

1.1 Designations

Xellex : 6LR61 IEC :6LR61 JIS :6AM6

ANSI :1604A

1.2 Reference Document

IEC 60086-1 (2000) --- *Primary Batteries - General*

IEC 60086-2 (2000) --- *Primary Batteries – Specification Sheets*

2. Chemical System

Alkaline Electrolyte--- Zinc-Manganese Dioxide Battery (0%Hg and 0%Cd added)

3. Dimensions

Height: 47.5 ± 1.0 mm Width: 25.5 ± 1.0 mm Thickness: 16.5 ± 1.0 mm

4.Nominal Voltage : 9 Volts

5.Average Weight : 47 g

6. Nominal Capacity

500mAh (620Ω continuous discharge , Temp. : 20 ± 2 , E.P.V<Cut-off Discharge Volt> : 0.9 Volts)

7. Electrical Performance

(Conditions : $47\Omega \pm 0.5\%$ load resistance, Measuring time 0.3 Seconds, Temperature at 20 ± 2 , Tested within 30 Days after delivery)

	Off-load Voltage (V)	On-load Voltage (V)	*Flush Short Circuit Current(A)	Acceptance Standard
New Battery	9.1	7.6	3.1	MIL-STD105E,Class II , Double Sampling , AQL=0.4
After 36 Mths Shelf Time at room Temp	8.7	7.1	2.8	

*The Hair Spring Ampere Meter with $\pm 0.5\%$ Accuracy (0.5 Level) shall be used.

8.Service Output

(Conditions : Test Temp. 20 ± 2 , Relative Humidity: 45%-75% Test within 30 Days after delivery)

Test Standards	Discharge Condition			Average Minimum Discharge Time	
	Discharge Load	Daily Discharge Time	Cut-off Discharge Voltage (V)	New Battery	After 12 Mths Shelf Time at room Temp.
IEC Standard	620Ω	2 Hours	5.4	45hrs	42hrs
	180Ω	30 Mins	4.8	750mins	720mins
	270Ω	1 Hour	5.4	19hrs	18hrs
Reference	180Ω	24 Hours	5.4	720mins	690mins
	900Ω	4 Hours	5.4	63hrs	60hrs

Acceptance Criteria : 9 batteries shall be tested for each discharging standard, the Average Discharging Time should be equal to or above the Average Minimum Discharging Time required. Moreover, the total amount of the batteries whose Average Discharging Time is less than 80% of the time required shall not exceed 1, Thus, the ADT of the batteries can be recognized accorded with the requirements

9. Electrolyte Leakage Proof Characteristics

Item	Condition	Period	Characteristics	Acceptance Standard
Over-discharge Characteristics	Temp. : 20 ± 2 Relative Humidity : $65 \pm 20\%RH$	180Ω continuous discharge 48 Hours	There shall be no deformation exceeding the specified dimensions, nor leakage recognized by human eye	N=30,Ac=1,Re=2
Storage Characteristics	Temp. : 45 ± 2 Relative Humidity : $< 70\%RH$	90 Days		N=30,Ac=1,Re=2
High Temperature Characteristics	Temp.: 60 ± 2 Relative Humidity : $90\%RH$	30 Days		N=30,Ac=1,Re=2

10. Safety Characteristics

Item	Condition	Period	Characteristics	Acceptance Standard
Short Circuit Characteristics	Temp: 20 ± 2 Relative Humidity: 60 ± 15% Directly connect the Positive & Negative Terminals with a wire	24 Hours	There shall be no explosion of battery	N=9,Ac=0,Re=1
Abusive Characteristics	Temp: 20 ± 2 Relative Humidity: 60 ± 15% Charge at 20mA		There shall be no explosion of battery	N=9,Ac=0,Re=1

11. Marking The following markings will be printed, stamped or impressed on the body of the battery :

- (1) Designation : 6LR61 9V 6AM6
- (2) Manufacturer's name, abbreviation or brand : XELLEX
- (3) Nominal Voltage : 9 V
- (4) Polarity : “ + ” , “ - ”
- (5) Warning: Battery may explode or leak if recharged or disposed of in fire.
- (6) Expiry Date(Guarantee Period) : The Date which show on the labels of the finished product is used to indicate the Quality Assurance Period before it is used.



- (7) Icon :  An Icon which indicates the battery can not be disposed of in the Rubbish Can.

12. Caution for Use

- (1) Since the battery is not manufactured for recharging, there are risks of electrolyte leakage or causing damage to the device if the battery is charged.
- (2) The battery shall be installed with its “+” and “-” in the right position.
- (3) Short-connecting, heating, disposing of into fire and disassembling the battery are prohibited.

13. Shelf Life

After 12 Mths Shelf Time at 20 °C, the capacity remains at the 90% of the new battery

After 24 Mths Shelf Time at 20 °C, the capacity remains at the 85% of the new battery

After 36 Mths Shelf Time at 20 °C, the capacity remains at the 80% of the new battery

14. Discharging Curves

620 mA, Continuous Discharging Curves, E.P.V: 5.4V (Figure 1)

270 mA, Continuous Discharging Curves, E.P.V: 5.4V (Figure 2)

180 mA, Continuous Discharging Curves, E.P.V: 4.8V (Figure 3)

15. Battery Dimensions & Structure (Figure 4)

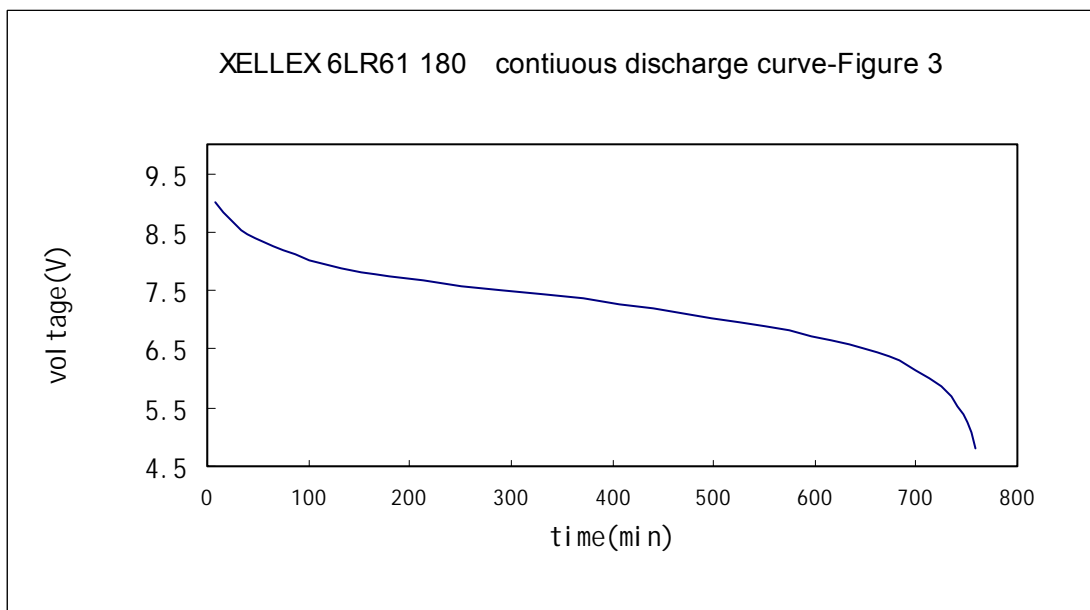
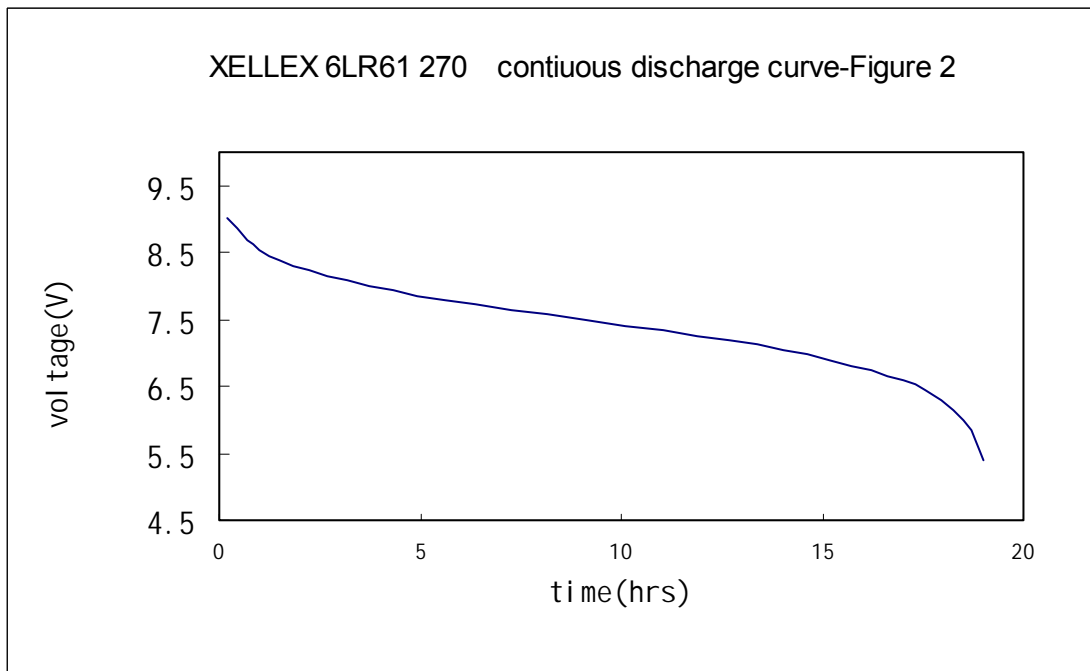
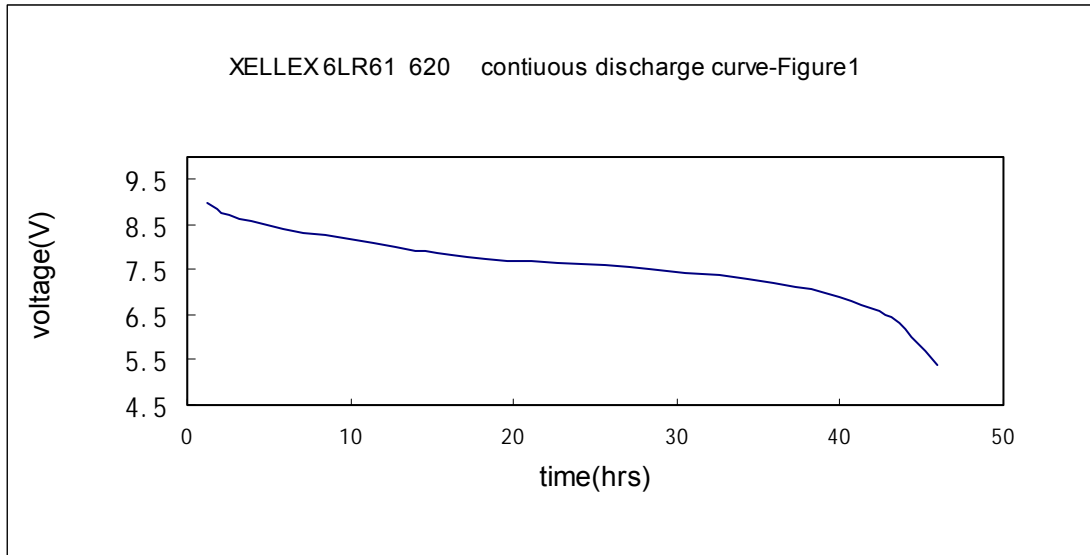
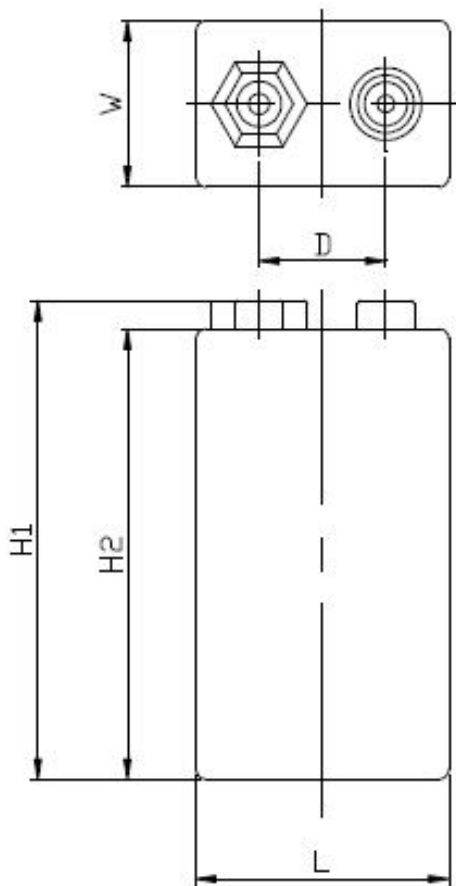


Figure 3:

xelllex 6LR61 電池尺寸圖



單位 : mm

L : 25.5 ± 1.0

W : 16.5 ± 1.0

H1 : 47.5 ± 1.0

H2 : 46.4 Max

D : 12.7 ± 0.25