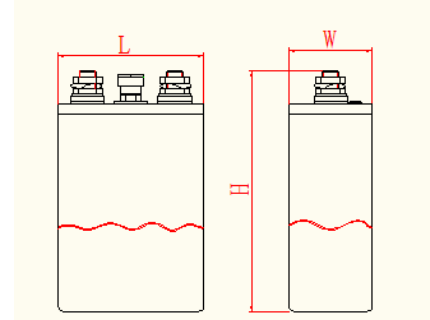


## KPL70 NI-CD BATTERY DATA SHEET

### Battery Type

Battery Model: KPL70  
Brand: CHANGHONG  
Nominal Capacity: 70Ah  
Nominal Voltage: 1.2V  
Recommended Discharge Duration:  $t \geq 3h$   
Work Temperature:  $-40^{\circ}\text{C} \sim +60^{\circ}\text{C}$



### Physical Properties

Height(H):  $\leq 285\text{mm}$   
Length(L):  $\leq 134\text{mm}$   
Width(W):  $\leq 70\text{mm}$   
Max. Weight:  $\leq 4.2\text{kg}$   
Electrolyte Type:  $\text{E3}(1.2\text{g}/\text{cm}^3 \text{KOH} + 20\text{g}/\text{L LiOH} \cdot \text{H}_2\text{O})$   
Electrolyte Volume: 0.8L

### Structure

Container Material: PP  
Separator Material: PP  
Terminal Size: M16  
Terminal Qty.:  $\oplus 1/\ominus 1$   
Connection Torque:  $30 \pm 3\text{N.m}$

### Plates Type

Positive: Pocket type plates  
Negative: Pocket type plates

### Cable

Sectional area of cables:  $\geq 25\text{mm}^2$

### Recommended Charging Method

- Dual-voltage charging setting ( $25^{\circ}\text{C}$ ):  
Equalizing charging:  $1.60\text{V} \sim 1.65\text{V}$   
Floating Charging:  $1.43\text{V} \sim 1.45\text{V}$
- Single-voltage charging setting:  $1.45\text{V} \sim 1.50\text{V}$

## Internal Resistance/Short-circuit current

Internal Resistance: 2.86mΩ~3.57mΩ

Short-circuit current: 840A

## Discharge Performance

Performance after prolonged float charge of fully charged cells available current at 20±5℃

End off voltage V/cell	Hours							Minutes							Seconds		
	10	8	5	3	2	1.5	1	30	20	15	10	5	1	30	5	1	
1.00	7.35	9.01	14.0	22.9	31.1	37.1	45.7	56.4	63.7	68.0	74.5	84.8	109	118	134	141	
1.05	7.21	8.73	13.9	20.1	26.8	32.6	37.9	47.2	51.4	56.4	61.2	69.8	88.8	95.5	110	112	
1.10	6.93	8.18	12.0	17.8	23.6	27.3	31.4	37.4	42.2	44.8	48.1	56.4	72.1	76.3	84.0	85.4	
1.14	6.72	7.81	10.6	15.7	19.5	22.3	25.0	29.9	32.9	34.5	38.1	43.6	56.9	61.4	66.3	68.3	

Performance after charging the battery for 8 hrs with 0.2ItA at 20±5℃

End off voltage V/cell	Hours							Minutes							Seconds		
	10	8	5	3	2	1.5	1	30	20	15	10	5	1	30	5	1	
1.00	7.35	9.01	14.0	22.9	32.7	41.2	52.5	67.9	77.7	84.0	93.1	106	138	149	169	179	
1.05	7.21	8.73	13.9	22.1	31.2	38.8	46.8	60.5	66.8	74.2	80.5	93.1	120	129	148	151	
1.10	7.14	8.61	13.3	21.5	29.5	35	41.3	51.3	57.8	62.2	67.7	80.5	103	109	120	122	
1.14	7.07	8.40	13.2	20.7	26.3	30.5	35.2	44.0	48.4	51.5	57.8	67.0	87.5	94.5	102	105	