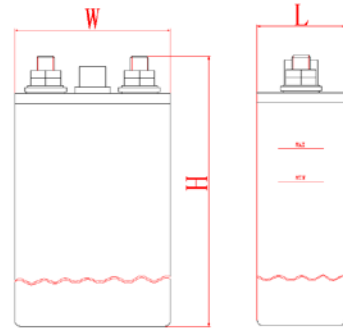


## KPL150 NI-CD BATTERY DATA SHEET

### Battery Type

Battery Model: KPL150  
Brand: CHANGHONG  
Nominal Capacity: 150Ah  
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):  $\leq 348\text{mm}$   
Length(L):  $\leq 107\text{mm}$   
Width(W):  $\leq 165\text{mm}$   
Max. Weight:  $\leq 9.0\text{kg}$   
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: 2.5L

### Structure

Container Material: PP  
Separator Material: PP  
Terminal Size: M20  
Terminal Qty.:  $\oplus 1/\ominus 1$   
Connection Torque:  $35 \pm 5\text{N.m}$

### Plates Type

Positive: Pocket type plates  
Negative: Pocket type plates

### Cable

Sectional area of cables:  $\geq 50\text{mm}^2$

### 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: 1.33mΩ~1.67mΩ

Short-circuit current: 1500A

## 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	15.4	19.2	30.0	48.0	62.8	73.8	90.6	121	135	144	158	173	210	225	270	290
1.05	15.3	19.1	29.7	46.5	58.0	65.4	77.5	98.3	108	113	124	147	168	184	222	240
1.10	15.0	18.4	28.2	39.1	48.4	54.1	64.8	76.2	82.0	90.0	99.8	104	137	150	182	200
1.14	14.7	17.3	24.8	33.9	39.0	42.5	49.5	61.3	64.8	67.2	75.6	88.2	112	123	152	169