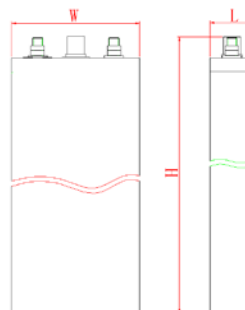


KPL10 NI-CD BATTERY DATA SHEET

Battery Type

Battery Model: KPL10
Brand: CHANGHONG
Nominal Capacity: 10Ah
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): $\leq 223\text{mm}$
Length(L): $\leq 29\text{mm}$
Width(W): $\leq 81\text{mm}$
Max. Weight: $\leq 0.8\text{kg}$
Electrolyte Type: E3($1.2\text{g}/\text{cm}^3$ KOH + $20\text{g}/\text{L}$ LiOH·H₂O)
Electrolyte Volume: 0.1L, KOH: 36g/cell, LiOH·H₂O: 2.5g, H₂O: 82 cm³

Structure

Container Material: PP
Separator Material: PP
Terminal Size: M6
Terminal Qty.: $\oplus 1/\ominus 1$
Connection Torque: $9 \pm 1\text{N.m}$

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°C :
Equalizing charging: 1.60V~1.65V
Floating Charging: 1.43V~1.45V
- Single-voltage charging setting: 1.45V~1.50V

The data herein given are for information purposes only and are not binding on CHANGHONG. They may be revised without prior notice.

Internal Resistance/Short-circuit current

Internal Resistance: 20.0mΩ~25.0mΩ Short-circuit current: 100A

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	1.03	1.27	2.00	3.20	4.23	5.10	6.46	8.93	10.1	10.9	12.0	14.4	17.9	19.8	25.5	28.7
1.05	1.02	1.26	1.96	3.10	3.93	4.53	5.62	7.33	8.53	9.20	10.1	10.7	14.4	16.2	21.1	23.7
1.10	1.00	1.23	1.88	2.67	3.36	3.88	4.64	5.85	6.47	6.93	7.80	9.07	11.6	13.3	17.5	19.9
1.14	0.98	1.15	1.65	2.35	2.80	3.09	3.75	4.67	5.19	5.57	5.88	6.73	9.53	11.0	14.4	16.5