



## Features



- Strap devices, Axial leaded, Low initial resistance
- Typical use for NiCd/NiMH rechargeable battery packs, Li-ion /Polymer Li-ion battery.
- Available in lead-free version
- Agency recognition: UL、CSA



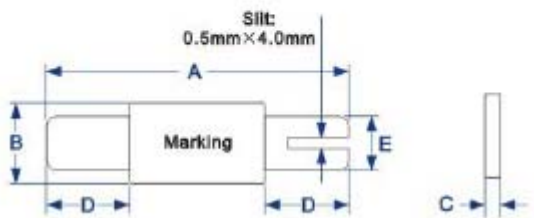
# LP series Strap devices

## Product Dimensions(mm)

Part number	A		B		C		D		E	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
LP070	17.0	20.1	4.9	5.5	0.5	0.9	3.5	6.2	3.8	4.2
LP100	17.0	20.1	4.9	5.5	0.5	0.9	3.5	6.2	3.8	4.2
LP120	17.0	20.1	4.9	5.5	0.5	0.9	3.5	6.2	3.8	4.2
LP175	20.9	23.1	4.9	5.5	0.5	1.0	3.0	6.0	3.8	4.2
LP180	20.9	23.1	4.9	5.5	0.5	1.0	3.0	6.0	3.8	4.2
LP190	20.9	23.4	7.9	8.4	0.5	0.9	4.0	7.6	4.8	5.4
LP200	20.9	23.4	7.9	8.4	0.5	0.9	4.0	7.6	4.8	5.4
LP260	20.9	23.1	7.9	8.4	0.6	1.0	4.0	7.6	4.8	5.4
LP300	25.4	28.5	13.0	13.7	0.5	1.1	4.0	7.3	4.8	5.4
LP310	25.4	28.5	13.0	13.7	0.6	1.0	4.0	7.3	4.8	5.4
LP340	25.4	28.5	13.0	13.7	0.6	1.0	4.0	7.3	4.8	5.4
LP350	25.0	28.4	12.8	13.5	0.5	0.9	5.0	8.0	4.9	5.1
LP380	24.0	26.0	7.1	7.6	0.5	1.0	4.1	6.0	4.9	5.1
LP420	29.6	32.4	11.9	12.5	0.5	0.9	4.0	7.5	4.9	5.1
LP450	24.0	26.0	9.9	10.5	0.5	1.0	5.0	6.7	5.9	6.1
LP550	35.0	37.0	7.1	7.6	0.5	1.0	5.0	6.9	4.9	5.1
LP600	24.0	26.0	13.4	14.0	0.5	1.0	5.0	6.9	5.9	6.1
LP730	26.0	29.1	13.9	14.5	0.5	1.0	4.0	6.0	5.9	6.1
LP900	45.0	48.0	7.9	8.5	0.5	1.3	4.0	7.0	5.9	6.1
LP1410	58.0	60.0	13.4	14.0	0.5	1.3	5.0	7.0	5.9	6.1

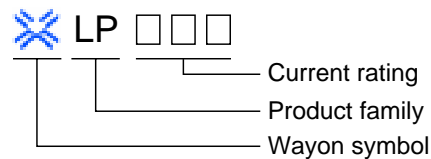


Standard style



"S" style

### Marking system



- \* Lead materials: Nickel.
- \* Insulating material: Polyester tape.
- \* Lead-free devices are available, the right logo is lead-free mark of wayon.
- \* Wayon designs special products to meet customers' different size demands of battery.



## Electrical Characteristics

Part number	$I_H$	$I_T$	$V_{max}$	$I_{max}$	$T_{trip}$		$R_{min}$	$R_{max}$
	(A)	(A)	(V)	(A)	Current(A)	Time(S)	( )	( )
LP070	0.70	1.45	15	100	3.5	5.0	0.100	0.200
LP100	1.0	2.50	24	100	5.0	7.0	0.070	0.130
LP120	1.20	2.70	15	100	6.0	5.0	0.085	0.160
LP175	1.75	3.80	15	100	8.5	5.0	0.050	0.090
LP180	1.80	3.80	24	100	9.0	2.9	0.040	0.068
LP190	1.90	4.20	24	100	9.5	3.0	0.030	0.057
LP200	2.00	4.40	30	100	10.0	4.0	0.030	0.060
LP260	2.60	5.20	24	100	13.0	5.0	0.025	0.042
LP300	3.00	6.30	24	100	15.0	4.0	0.015	0.031
LP310	3.10	6.00	24	100	15.5	5.0	0.018	0.030
LP340	3.40	6.80	24	100	17.0	5.0	0.016	0.027
LP350	3.50	6.30	24	100	20.0	3.0	0.017	0.031
LP380	3.80	8.30	15	100	19.0	5.0	0.013	0.026
LP420	4.20	7.60	24	100	20.0	6.0	0.012	0.024
LP450	4.50	8.90	20	100	22.5	5.0	0.011	0.020
LP550	5.50	10.50	20	100	27.5	5.0	0.009	0.016
LP600	6.00	11.70	20	100	30.0	5.0	0.007	0.014
LP730	7.30	14.10	20	100	30.0	5.0	0.006	0.012
LP900	9.00	16.70	20	100	45.0	5.0	0.006	0.010
LP1410	14.10	26.20	20	100	70.0	5.0	0.003	0.005

$I_H$ =Hold current: maximum current at which the device will not trip at 25 °C still air.

$I_T$ =Trip current: minimum current at which the device will always trip at 25 °C still air.

$V_{max}$ =Maximum voltage device can withstand without damage at rated current.

$I_{max}$ =Maximum fault current device can withstand without damage at rated voltage.

$T_{trip}$ =Maximum time to trip(s) at assigned current.

$P_{d,typ}$ =Typical power dissipation: typical amount of power dissipated by the device when in state air environment.

$R_{min}$ =Minimum device resistance at 25 °C prior to tripping.

$R_{max}$ =Maximum device resistance at 25 °C prior to tripping.

## Thermal Derating Chart- $I_H$ (A)

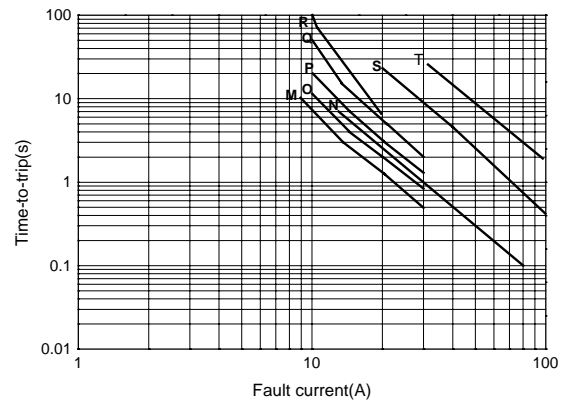
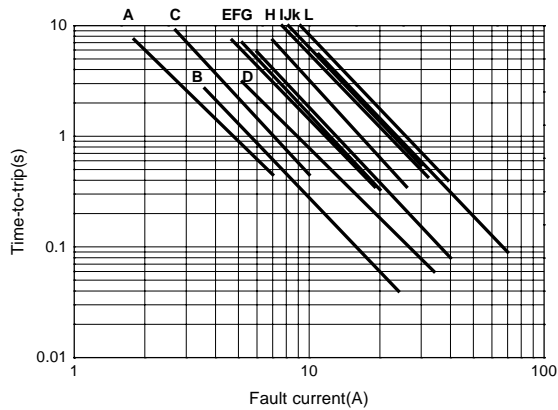
Part number	Maximum ambient operating temperatures( °C )								
	-40	-20	0	25	40	50	60	70	85
LP070	1.32	1.21	0.99	0.70	0.63	0.60	0.50	0.39	0.26
LP100	2.00	1.73	1.52	1.00	0.99	0.85	0.75	0.61	0.40
LP120	1.95	1.74	1.54	1.20	1.07	0.98	0.87	0.76	0.58
LP175	2.57	2.36	2.07	1.75	1.59	1.39	1.27	1.18	0.99
LP180	3.23	2.88	2.35	1.80	1.48	1.20	1.10	0.75	0.45
LP190	3.50	3.00	2.51	1.90	1.60	1.35	1.20	0.88	0.52
LP200	3.28	2.88	2.59	2.00	1.81	1.70	1.52	1.31	1.02
LP260	4.40	3.80	3.19	2.60	2.10	1.80	1.49	1.19	0.70
LP300	5.20	4.49	3.78	3.00	2.39	2.04	1.70	1.35	0.78
LP310	5.46	4.68	3.80	3.10	2.45	2.11	1.80	1.40	0.80
LP340	5.60	4.88	4.10	3.40	2.70	2.33	2.00	1.60	0.89
LP350	5.51	4.89	4.42	3.58	3.00	2.89	2.62	2.28	1.79
LP380	5.40	4.90	4.40	3.80	3.30	3.00	2.80	2.50	2.10
LP420	6.53	5.81	5.20	4.20	3.69	3.38	3.10	2.75	2.24
LP450	6.50	5.80	5.30	4.50	3.90	3.60	3.30	2.90	2.40
LP550	7.60	6.90	6.20	5.50	4.70	4.30	4.00	3.60	3.00
LP600	8.70	7.80	7.10	6.00	5.20	4.70	4.40	3.90	3.20
LP730	10.50	9.50	8.60	7.30	6.30	5.70	5.40	4.70	4.00
LP900	12.70	11.40	10.00	9.00	7.50	6.80	6.20	5.50	4.50
LP1410	21.92	19.51	17.46	14.10	12.39	11.35	10.41	9.23	7.52

## Test Procedures And Requirements

Test	Test Conditions	Accept/Reject Criteria
Resistance	In still air @ 25	$R_{min}$ R $R_{max}$
Time to Trip	Specified current, $V_{max}$ , 25	T maximum Time to Trip
Hold Current	30min, at $I_H$	No trip
Trip Cycle Life	$V_{max}$ , $I_{max}$ , 100cycles	No arcing or burning
Trip Endurance	$V_{max}$ , 24hours	No arcing or burning

## Typical Time-to-Trip Charts at 25

A=LP070  
 B=LP100  
 C=LP120  
 D=LP175  
 E=LP180  
 F=LP190  
 G=LP200  
 H=LP260  
 I=LP300  
 J=LP310  
 K=LP340  
 L=LP350  
 M=LP380  
 N=LP420  
 O=LP450  
 P=LP550  
 Q=LP600  
 R=LP730  
 S=LP900  
 T=LP1410



## Package Information

Bulk:

LP070~LP260.....1000pcs per bag

LP300~LP1410.....500pcs per bag