



**Hi-Cap**  
ULTRACAPACITOR

# Power Type

## PL Series

### Features

- Small size and low-resistance
- Quick charge & discharge
- Environmentally friendly products

### Recommended Applications

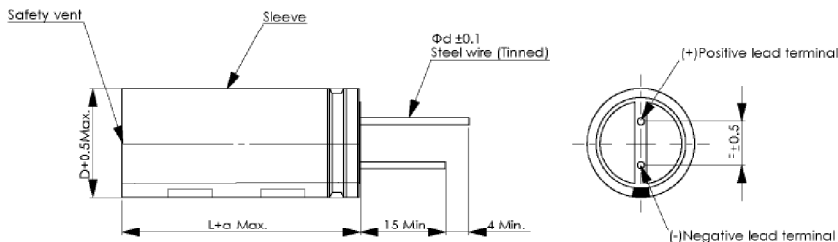
- Pulse power demand
- Hybrid battery packs
- Power tools



### Specification

Items	Characteristics	
Rated Voltage	2.7 V	
Surge Voltage	2.85 V	
Capacitance Tolerance	-20 % / +20 %	
Operating Temperature	-40 °C to 65 °C	
Storage Temperature	-40 °C to 70 °C	
Life time	10y @ 25 °C	△C Within ±30% of initial measured value
		ESR Within 2 times of initial specified value
Cycle Life	500k cycles @ 25 °C	△C Within ±30% of initial measured value
		ESR Within 2 times of initial specified value

### Dimensions



### Size List

Size	D	L	d	F	a
8X12	8	12	0.6	3.8	1
8X14	8	14	0.6	3.8	1
8X16	8	16	0.6	3.8	1
8X20	8	20	0.6	3.8	1
8X28	8	28	0.6	3.8	2
10X20	10	20	0.6	5.3	1
10X25	10	25	0.6	5.3	2
10X30	10	30	0.6	5.3	2
12.5X35.5	12.5	35.5	0.8	5.5	2
16X26	16	26	0.8	7.8	2
16X31.5	16	31.5	0.8	7.8	2
18X41	18	41	1	8	2
18X45	18	45	1	8	2
22X45	22	45	1	10	2



Ph: 847-675-1865  
 Fax: 847-675-3345  
 Email: sales@icd-sales.com  
 Website: www.icd-sales.com



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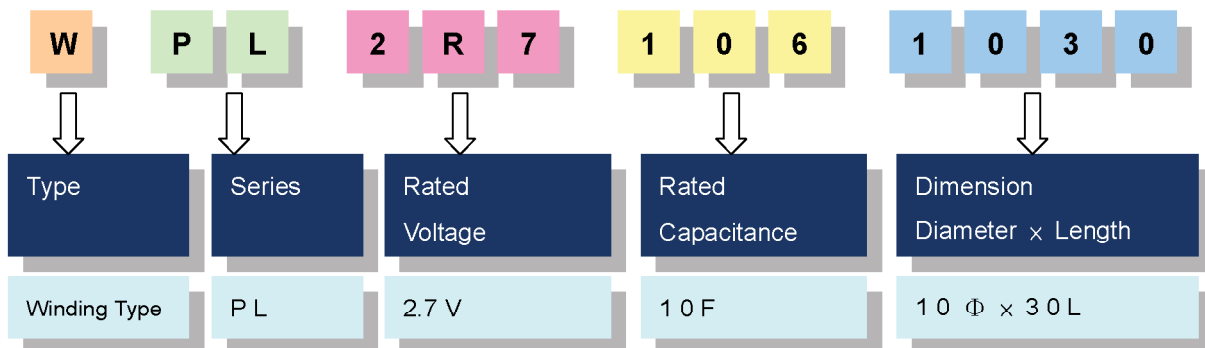


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● **Standard Ratings**

Rated Cap (F) measure at 25°C	Size (mm) ΦDXL	Internal Resistance (mΩ)		LC (mA) 72hrs, 25°C	Stored Energy (Wh)	Specific Energy		Specific Power		Max. Current 1s to 1/2V (A)	Isc (A)	Weight (g)	Part Number
		AC (1kHz)	DC			(Wh/kg)	(Wh/l)	Pd (W/kg)	Pmax (W/kg)				
0.5	8X12	700	2000	0.002	0.0005	0.5063	0.8397	437	2604	0.338	1.35	1	WPL2R75040812
1	8X12	350	700	0.006	0.0010	1.0125	1.6794	1250	5207	0.794	3.86	1	WPL2R71050812
1.5	8X14	250	500	0.008	0.0015	1.2656	2.1593	1458	6075	1.157	5.40	1.2	WPL2R71550814
2	8X16	200	450	0.010	0.0020	1.5577	2.5192	1495	7010	1.421	6.00	1.3	WPL2R72050816
3.3	8X20	150	320	0.012	0.0033	2.2275	3.3253	1823	8100	2.167	8.44	1.5	WPL2R73350820
4	10X20	120	230	0.014	0.0041	2.0250	2.5796	1902	7594	2.813	11.74	2	WPL2R74051020
5	10X20	110	200	0.015	0.0051	2.2011	3.2245	1902	7204	3.375	13.50	2.3	WPL2R75051020
6	8X28	90	160	0.012	0.0061	2.5313	4.3186	2278	8438	4.133	16.88	2.4	WPL2R76050828
6	10X20	80	140	0.012	0.0061	2.4300	3.8694	2499	9113	4.402	19.29	2.5	WPL2R76051020
8	10X25	70	120	0.020	0.0081	2.7000	4.1274	2430	8679	5.510	22.50	3	WPL2R78051025
10	10X30	60	80	0.030	0.0101	2.5313	4.2994	2734	7594	7.500	33.75	4	WPL2R71061030
22	12.5X35.5	32	45	0.045	0.0223	3.4269	5.1156	2991	8762	14.925	60.00	6.5	WPL2R72261236
25	16X26	28	42	0.045	0.0253	3.5156	4.8445	2893	9040	16.463	64.29	7.2	WPL2R72561626
30	16X31.5	25	35	0.065	0.0304	3.5735	4.7984	2941	8576	19.756	77.14	8.5	WPL2R73061632
50	18X41	15	20	0.075	0.0506	3.6161	4.8547	3124	8679	33.750	135.0	14	WPL2R75061841
60	18X45	15	20	0.100	0.0608	3.7969	5.3079	2734	7594	36.818	135.0	16	WPL2R76061845
70	18X45	15	20	0.100	0.0709	4.4297	6.1925	2734	7594	39.375	135.0	16	WPL2R77061845
100	22X45	10	15	0.260	0.1013	4.8214	5.9220	2777	8679	54.000	180.0	21	WPL2R71072245

● **Part Numbering System**



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