Capacitors for Power Electronics

DC-link Capacitors

Series ***PEDL***

Applications

Electro-transport, substations, windmills, frequency converters, etc.

General

The PEDL series capacitors are specifically designed for DC circuit. The capacitor has low losses and elements are made by self-healing metallized polypropylene film with dry technology. The special composition of polymeric dielectric enables to reach high dielectric strength in the temperature range up to +85°C. The capacitors have excellent operating current and lifetime.

Characteristics

Standard	IEC61071, IEC 61881
Capacitance tolerance	±10% (optional ±5%)
Rated DC Voltage	900V to 5kV
Dielectric	Polypropylene
Tangent of the loss angle	< 0.02%
Self-inductance (ESL)	< 50nH
Test voltage between terminals	1.5xUn / 10s at 25±5°C
Test voltage between terminals and case	2xUn+1000VAC / 60s at 60Hz 25±5°C
Operating temperature	-40°C / +70°C (optional 85℃)
Storage temperature	-40°C / +85°C
Case	Rectangular non-magnetic stainless steel
Filling material	Epoxy resin (RoHS complied)
Failure rate	< 100FIT
Lifetime Expectancy	> 100000h
Cooling method	Natural

Specification and Dimension

Un DC	uF	L	W	H	Weight kg
900	4000	340	125	215	11.1
	8000		125	340	18.2
	16000		175	430	29.7
	24000		175	580	40.4
1200	2000		125	215	11.0
	4000		125	380	20.5
	8000		125	650	35.5
	12000		175	670	47.3
2000	1000		125	270	14.0
	2000		125	440	23.3
	4000		175	580	40.7
	5000		175	700	49.4
4000	200		125	240	12.4
	400		125	400	21.4
	800		175	500	35.2
	1000		175	580	40.7
5000	150		125	285	14.8
	300		140	430	24.6
	600		175	540	38.2
	750		175	650	46.3

ISO 9001:2008 認證工廠

Ver. 2018.11

裕昌機電工廠股份有限公司
YUHCHANG ELECTRIC CO., LTD.

總　公　司：台中市清水區中正街59號　TEL:(04)2622-4188　FAX:(04)2622-4646
台北連絡處：台北市復興南路1段321號二樓　TEL:(02)2702-1616　FAX:(02)2702-6162
高雄連絡處：高雄市復興一路五之一號　TEL:(07)241-7766　FAX:(07)291-5282
Address: No. 59, Chung Cheng Street, Ching Shui District, Taichung City 43653, Taiwan
Web address: http://www.capacitor.com.tw　E-mail: yce919@ms1.hinet.net

Reference Dimensions

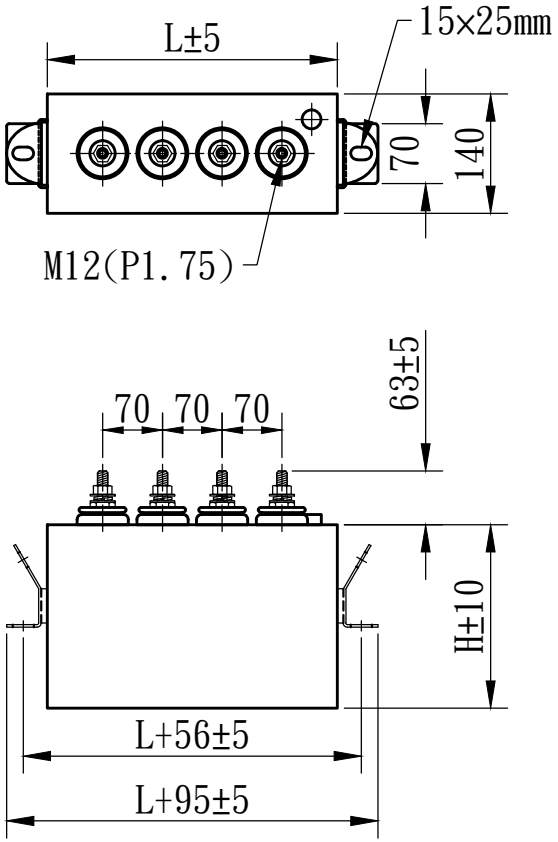

Fig. 1

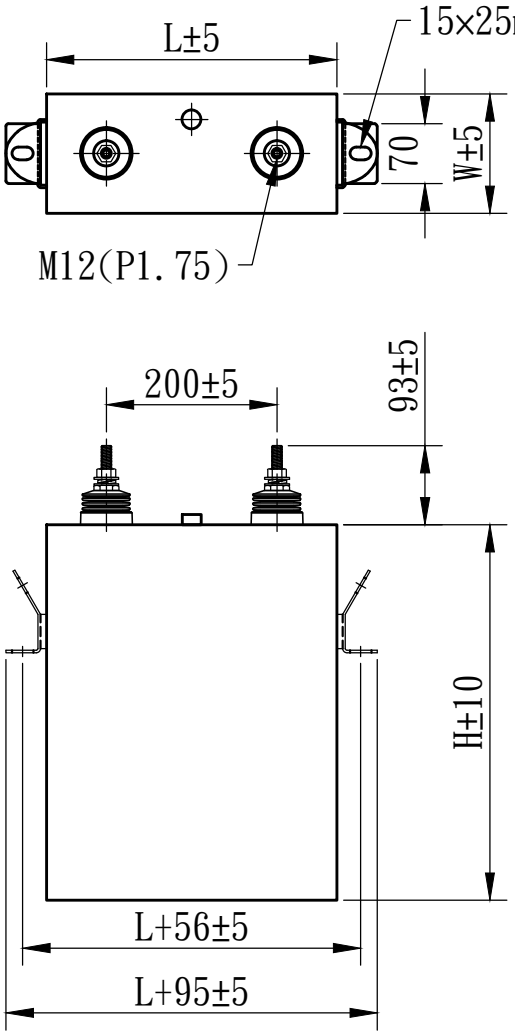

Fig. 2

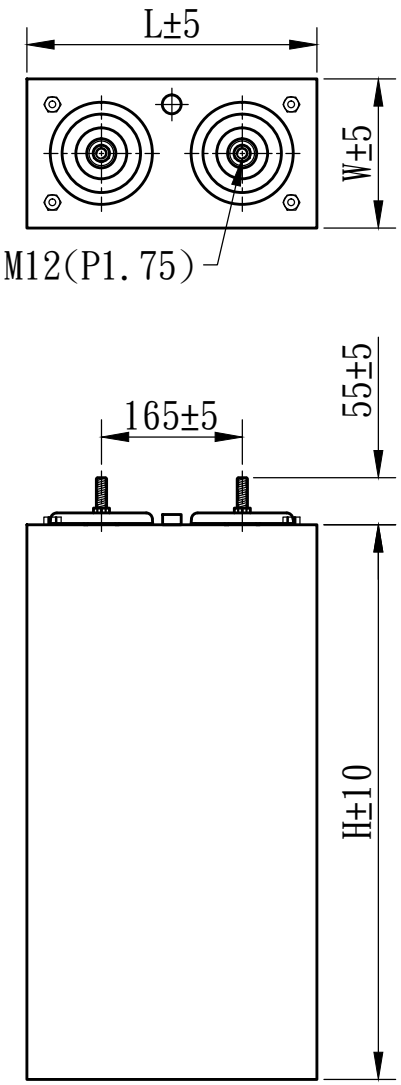

Fig. 3