

Capacitors for Power Electronics

DC-link Capacitors

Series **PEDH**

Applications

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

General

The PEDH series capacitors are specifically designed to filter high harmonic voltage in DC circuit. The capacitor has small 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
Capacitance tolerance	±10% (optional ±5%)
Rated DC Voltage	5.1kV to 40kV
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 VAC / 60s at 60Hz 25±5°C
Operating temperature	-40°C / +70°C (optional 85°C)
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
5500	100	340	140	215	11.6
	200	340	140	360	20.4
	400	340	175	470	32.5
	600	340	175	650	45.4
6500	200	340	185	330	24.1
	400	530	185	400	42.9
	600	530	185	550	59.9
	800	530	185	710	78.4
10000	50	340	185	220	15.3
	100	340	185	380	28.0
	200	530	185	470	54.4
	300	530	185	660	77.8
20000	10	340	185	240	17.2
	20	530	185	280	31.1
	40	530	185	490	57.4
	60	530	185	690	82.3
40000	2	340	185	300	21.8
	4	340	185	490	36.1
	6	530	185	400	46.3
	10	530	185	570	66.9

ISO 9001:2008 認證工廠

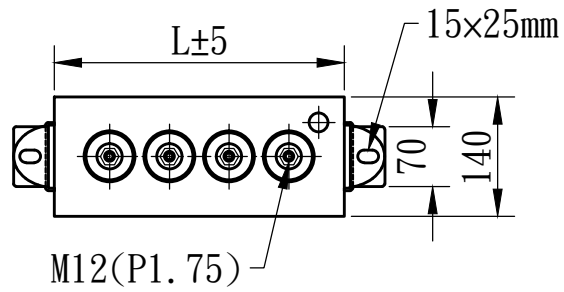
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Reference Dimensions



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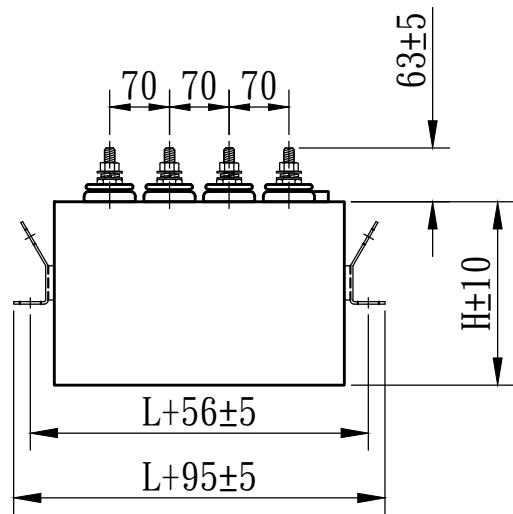
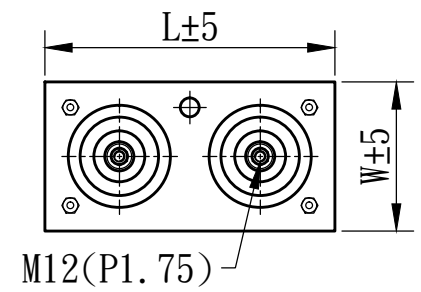
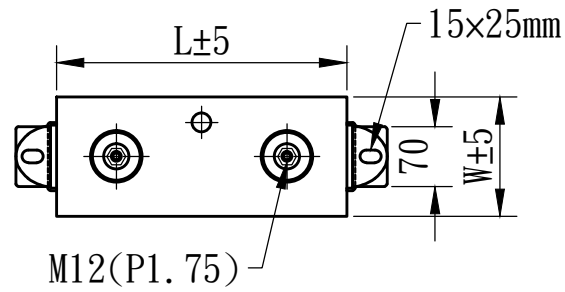


Fig. 1

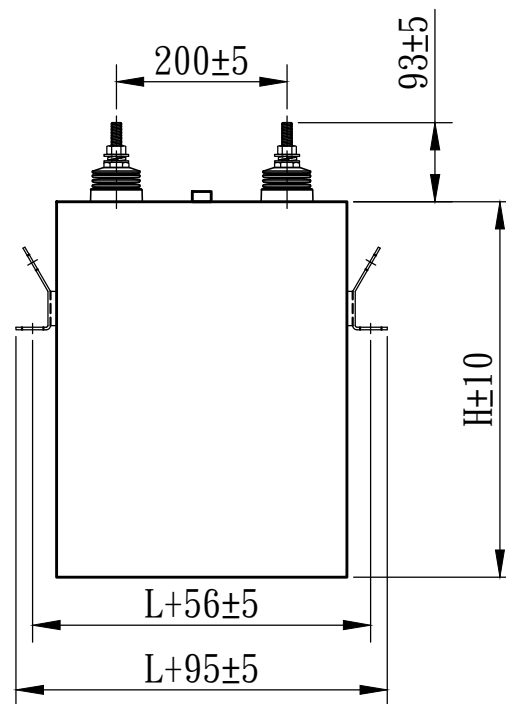


Fig. 2

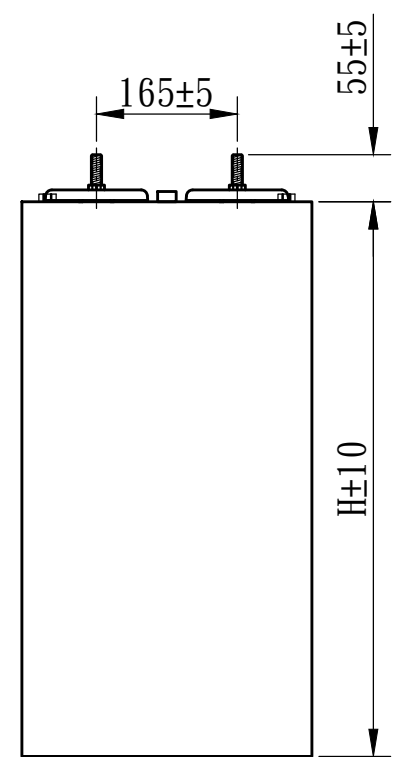


Fig. 3