

Overhead Lines
Composite Crossarm Insulators
for Power Transmission & Distribution

— Designed in 2011.2



13 Years' Manufacturing
Designed for 10kV to 220kV



**Power
System**

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Design

Our Composite Crossarm Insulators (Polymer Crossarm Insulators) are manufactured with these features:

Insulator Core Rod

Tongyi Power applies fiberglass rod (made from imported Glass Fiber and Epoxy Resin by pultrusion) to composite insulators for higher electrical and mechanical performance. FRP Rod is used in composite insulators below 66kV, ECR Rod is used in composite insulators above 66kV.

End Fittings

There are a variety of cross arm end fittings made of steel or ductile iron. They are directly crimped to the core rod by a circumferential crimping process, which utilizes the rod's inherent tensile strength to achieve better performance.

Sheds

The sheds are made from high quality HTV silicone rubber, using high pressure injection molding techniques to create a smooth surface. The weathersheds have excellent weather ability, high mechanical strength, anti-tracking, excellent corona resistance, pollution resistance and surface erosion resistance as well as superior Hydrophobicity performance.

Interface

The silicone rubber housing is injection molded onto the rod to create a reliable interface which ensures a permanent bond between the silicone rubber and rods, as well as prevents intrusion of moisture and contaminations.

Leakage Distance

Our composite post insulators feature high leakage distance for maximum resistance to contamination and leakage currents in various environmental applications.

Mechanical Ratings

Specified Cantilever Load (SCL) is the ultimate cantilever strength rating. SCL is identical to the minimum mechanical bending load. Maximum Design Cantilever Load (MDCL) or Working Cantilever Load (WCL) is the maximum continuous cantilever load at which the composite crossarm insulator applies.

Washability

All our composite post insulators are suitable for washing by conventional dry-particle, air-pressure cleaning methods in current use owing to the excellent hydrophobicity performance of the polymer insulators.

Better Materials, Better Design
Better Quality, Better Reliability



Standards

All our composite cross arm insulators are manufactured and tested in strict accordance with IEC 61952, along with the implement of ISO 9001:2008 to control the process and guarantee the quality of each insulator.

Stamps and Markings

A stamp is made on one end side of the silicone rubber during the injection molding, including details of a logo, manufacturer, date code, SCL in kN and rated voltage ect. Special order requirements can be met by us.

Packaging

Composite Post insulators are to be packed in the corrugated cartons stacked on a pallet and wrapped with four steel straps.

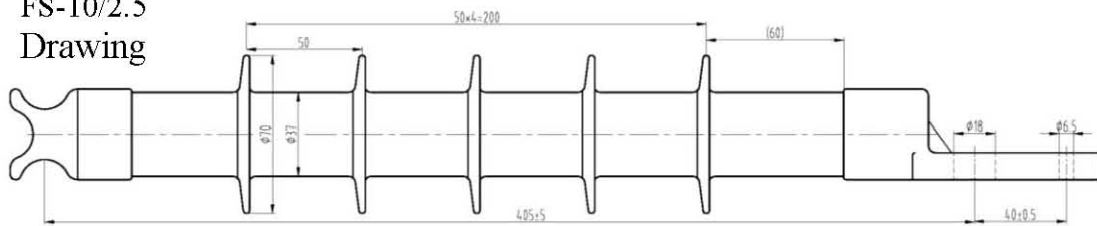
★ OEM and ODM of composite cross arm insulators from 10kV to 220kV are available.



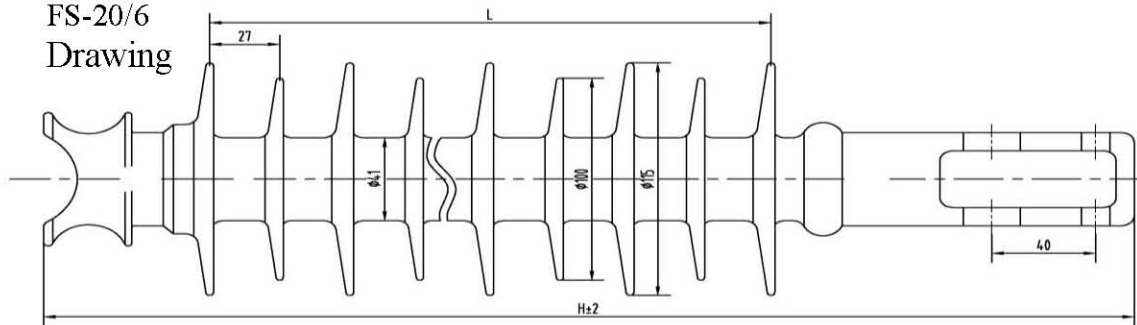
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Product Drawings

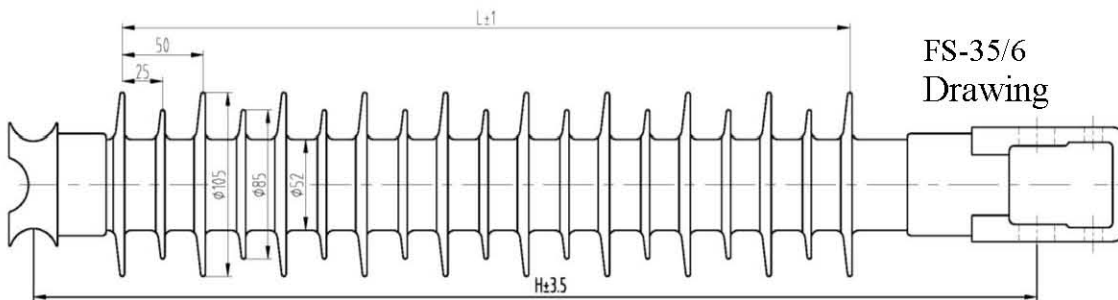
FS-10/2.5
Drawing



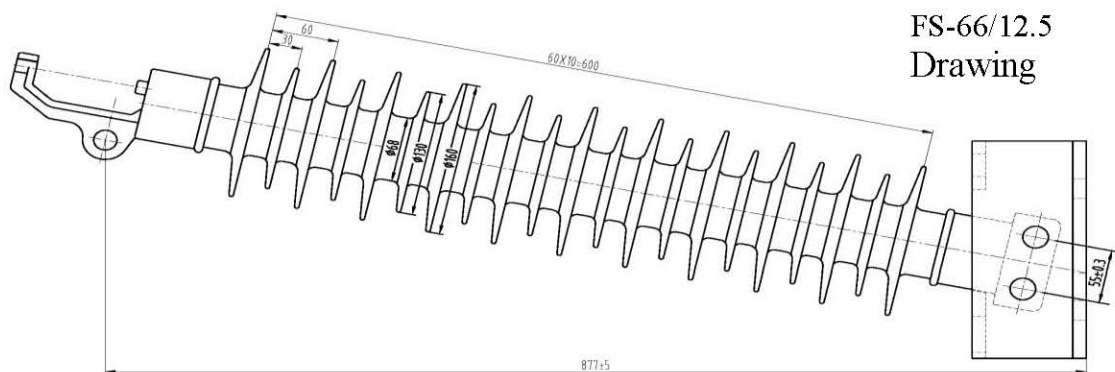
FS-20/6
Drawing



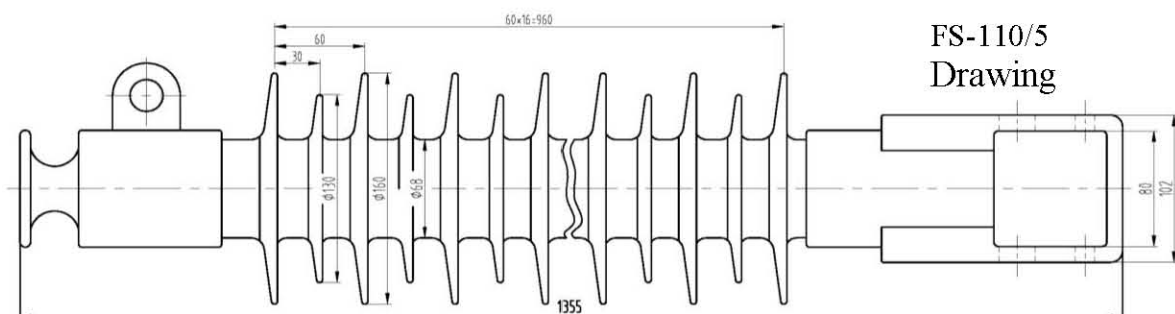
FS-35/6
Drawing



FS-66/12.5
Drawing



FS-110/5
Drawing



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Product Specifications

Model	Rated Voltage	Rated Mechanical bending load	Section Length H	Polymer Length L	Minimum Creepage Distance	Lightning Impulse Withstand Voltage	Power Frequency Withstand Voltage (kV)	
	kV	kN	mm	mm	mm	kV	Dry	Wet
FS-10/2.5	10	2.5	445	310	452	110	60	50
FS-10/5	10	5	254	260	450	110	60	50
FS-10/70	10	70 - Tensile	300+L	192	360	125	60	30
FS-10/8	10	8	210+L	160	380	135	70	50
FS-20/6	20	6	415	298	800	145	95	75
FS-25/12	25	12	760	480	1630	270	160	130
FS-25/12	25	12	760	480	1630	270	160	130
FS-25/12	25	16	800	530	1700	270	160	130
FS-25/16	25	16	800	530	1700	270	160	130
FS-25/16	25	16	890	650	1880	320	190	153
FS-25/8	25	8	670	430	1300	300	190	150
FS-25/8	25	8	840	520	1645	270	160	130
FS-27/54	27	54 - Tensile	550	340	955	260	150	125
FS-27/100	27	100-Tensile	540	340	1058	260	150	125
FS-27/54	27	54 - Tensile	485	340	955	260	150	125
FS-27/54	27	54 - Tensile	580	340	955	260	150	125
FS-35/6	35	6	620	506	1200	200	130	100
FS-35/8	35	8	620	500	1180	200	130	100
FS-66/12.5	66	12.5	877	708	2065	430	160	140
FS-110/5	110	5	1355	1060	3210	550	265	230

Note: OEM service in accordance with technical requirements are available upon request.

Hubei Tongyi Power Technology Co.,Ltd.
Chengnan Industrial Development Zone,
Jinzhou City, Hubei Province, P.R.China.
T: 86-716-8022566
F: 86-716-8022966
<http://www.hbtydq.com>
E-mail: zgztongyi@163.com

Zhejiang Tongyi Power Equipment Co.,Ltd.
Donglian Village, Xietang Town,
Shangyu City, Zhejiang, P.R.China.
T: 86-575-82072584
F: 86-575-82078631
<http://www.zjtongyi.com>
E-mail: tongyi@zjtongyi.com

FRP | Polymer Insulator | Fuse Cutout | Switchgear | Power Fitting
Suspension Insulator | Pin Insulator | Post Insulator | Crossarm Insulator | Bushing

Disclaimer

We reserve the right to change the dimensions without notice, the OEM crossarm insulators shall be confirmed in accordance with clients' needs, drawings and requirements of power line systems.



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