



# TRANSFORMERS

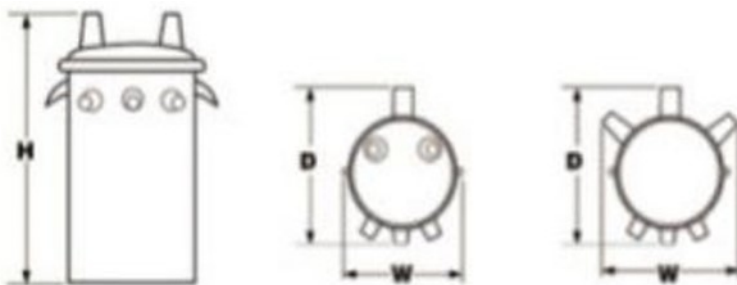
## PRODUCT CATALOG

# Single Phase Oil

This type of transformers are CSP type, which can protect itself from thunder and lightning, short circuits and protect the transiting and distribution line from current failure because of self-malfunction. Except from some similarities such as cylinder tanks, hooks, lifting lugs, grounding devices, nameplates, core and winding with the conventional type. These types of transformer has characteristics and devices as follows: One or two high voltage bushings are on the cover with a fuse.

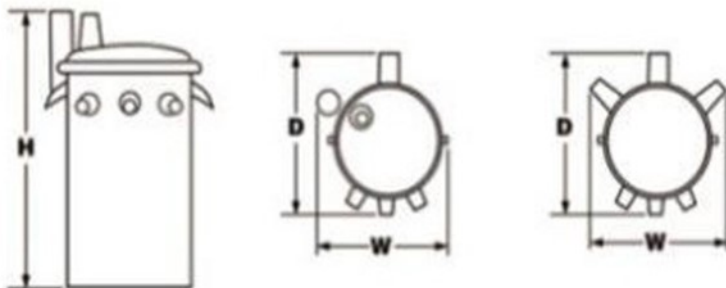


## Conventional Type



Product Scope:  
 kVA: 5-167  
 Primary Voltage: 2400-19,920 V  
 Secondary Voltage: 120-600 V

## CSP Type



Product Scope:  
 kVA: 5-75  
 Primary Voltage: 2400-19,920 V  
 Secondary Voltage: 120-600V

Technical Data For Single-Phase Pole Mounted Distribution Transformer ( D-M)

Rated Power (KVA)	High Voltage (V)	Low Voltage (V)	Loss (W)		Dimension(mm)			Weight(Kg)	
			No-load Loss (W)	Load loss (W)	W	D	H	Oil Weight	Total Weight
5	34500/19920 13800/7967 13200/7620 12470/7200 11000/6350 or others	120-240 240-480 or others	19	75	465	485	855	15	92
10			36	120	500	525	885	22	150
15			50	195	520	565	905	30	210
25			80	290	560	590	935	45	258
37.5			105	360	610	625	935	50	340
50			135	500	635	675	1035	62	395
75			190	650	745	840	1035	88	480
100			210	850	770	965	1135	94	530
167			350	1410	795	890	1335	138	680

※ Note: The above data is only subject to our standard design, special requirement can be customized

# Single Phase Pad Mounted

Single-phase pad-mounted transformers come equipped with a clamshell cabinet for ease of opening and uninhibited access to connections. The versatility of the design allows for various protective and switching configurations.

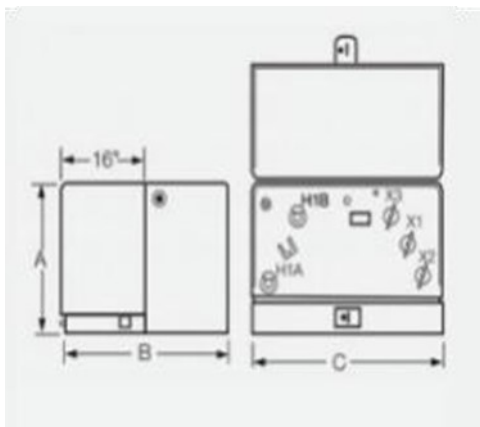
It can provide multi-service options while meeting the reliability and safety requirements of any distribution system. Units may be furnished in various ratings and in a wide range of one-of-a-kind configurations to meet customer needs



## Product Features

1. 10KVA to 500KVA capacity, 137V to 34500V voltage.
2. IIO vector group, 60Hz, Long service life.
3. Low loss, Low noise, High efficiency, Low temperature rise.
4. 3.0/4.0mm thickness tank and cover.
5. Oil-filled, Cooling method: ONAN

## Dimensions From 10kva to 167kva



Rated Power (KVA)	W	Dimension (mm)		Weight (kg)	
		D	H	Oil Weight	Total Weight
10	610	740	840	35	226
15	610	740	840	45	294
25	610	740	840	68	362
37.5	610	760	840	75	476
50	610	810	840	93	553
75	610	860	840	132	672
100	740	940	910	141	742
167	760	1190	910	207	952

# Three Phase Oil Distribution



10KV oil-immersed distribution transformers are important equipment distribution network and power supply and distribution systems of in & mining enterprises. It has the advantages of compact structure beautiful appearance, small size, low noise and strong overload capacity. 10kv class three phase oil-immersed distribution transformer hermetically sealed type and conservator type. The transformer is app to plant, mine, petrol chemical and other power distribution system class for industry and agriculture. They are also popular in sites with contamination and chemical substances.



## □ Technical Data for 10KV Three Phase Oil-Immersed Distribution Transformer

Rated Power (KVA)	High Voltage (KV)	Low Voltage (KV)	Vector Group	Short Circuit Impedance (%)	Loss (W)		No load Current (%)
					No-load Loss (W)	Load Loss (W)	
30	2.4	0.208	Dyn11 Yyn0 Dy	4	100	600	2.1
50					130	870	2
63					150	1040	1.9
80					180	1250	1.8
100					200	1500	1.6
125					240	1800	1.5
160					280	2200	1.4
200					340	2600	1.2
250					400	3050	1.2
315					480	3650	1.1
400					570	4300	1
500					680	5150	1
630					810	6200	0.9
800					980	7500	0.8
1000					1150	10300	0.7
1250					1360	12000	0.6
1600	1640	14500	0.6				
2000	1940	17400	0.6				
2500	2300	20200	0.5				
	or others	or others		4.5			
				5			

※ Note: The above data is only subject to our standard design, special requirement can be customized

# Three Phase Pad Mounted



The three phase pad mounted transformer, is a ground-mounted electric power distribution transformer in a locked steel cabinet mounted on a concrete pad. Since all energized connection points are securely enclosed in a grounded metal housing, a pad mounted transformer can be installed in places that do not need room for a fenced enclosure.

Pad mounted transformers are made in power ratings from around 15~5000 kVA , operate in medium voltage distribution systems, up to about 35 kV.



## Technical Specification

Rated Capacity KVA	High Voltage KV	Low Voltage KV	Tapping Range & Vector symbol	Loss(W)	
				No-load	On-load
30KVA	6.3KV	110V 220V 230V 240V 347V 480V 277V 600V	+5(±2*2.5)  Yyn0 Dyn11	110	500
63KVA	7.2KV			200	1040
75KVA	7.62KV			180	1250
125KVA	8.6KV			220	1700
150KVA	12.47KV			280	2200
225KVA	13.2KV			400	3050
300KVA	13.8KV			480	3650
500KVA	19.8KV			680	5100
750KVA	19.92KV			980	7500
1000KVA	22.86KV			1150	10300
1500KVA	34.5KV			1640	14500
2000KVA	35KV			2160	20645
2500KVA	or others			2680	27786
3000KVA				3300	30300
3750KVA				4125	37875

# Compact Substation



A COMPACT TRANSFORMER SUBSTATION can be explained as a group of electrical equipment that are assembled on a trailer or platform.

Transformer substation is widely used in industrial and mining enterprises, public building facilities, residential areas, street lights, parks and other places for power supply.



## Typical Structure

The prefabricated compact substation is a kind of compact and complete set of distribution equipment, which normally integrates below units.

### 1. HV/MV switchgear

It is used for power output and transmission operation, and has overload and short circuit protection, which normally composed of:

- \* High voltage load switch, like sulfur hexafluoride switch, Vacuum circuit breaker switch, or the fuse ring network switch
- \* Metering devices \* Voltage fuse \* Lightning arrester
- \* Current transformer / Voltage transformer

### 2. Distribution transformers types

- \* Oil-immersed transformer \* Dry-type transformer

### 3. Low-voltage power distribution device, mainly are equipped with below units

- \* The main switch / Shunt feeder switch / Feeder switch
- \* Metering devices (ammeter, voltmeter)
- \* LV air switch \* Current transformer \* Compensation capacitors
- \* Reactive power compensation devices \* PCS energy storage converter

### 4. Metal clad steel shell part.



# Switchgear

Switchgear is a combined cabinet which contain electrical switching equipment and serving the power grid.

Suitable for the power distribution system of power plants, substations, factories and mining enterprises and other power users.



## Application

Suitable for industrial and civil power distribution terminal projects.

E.g. small secondary substations, switching stations, cable branch boxes, box-type substations, industrial and mining enterprises, shopping malls, airports, subways , wind power generation, hospitals, stadiums, railways, , wind power generation, hospitals, stadiums, railways, tunnels and other places.