SATECH POWER
Industrial Grade Power System

Oil-Immersed Power Transformer

STK-O Series

Isolation, Auto and Special-Purpose Transformers | 10KVA – 10,000KVA

Key Features

- **High Efficiency.** The core is built from high-permeability, grain-oriented silicon steel to minimize no-load (iron) loss, and an optimized coil design reduces load (copper) loss. Lower losses mean lower energy consumption and lower electricity cost over the life of the transformer.
- **Compact Footprint.** Reduced losses allow a smaller radiator, so the transformer needs less installation space.
- **Robust Build**. Powder-coated enclosure, with Dyn1 or Dyn11 vector groups as standard. Other connections are available on request.
- **Tested for Safety.** Insulation resistance of 100MΩ, layer-to-layer test at 400Hz / 800V for 20 seconds, and AC 2000 V withstand voltage test.
- **Custom Designs Available** to meet your specific requirements.



Technical Specifications

Phase	Single Phase	Three Phase
Capacity	10 – 2,500KVA	10 - 10,000KVA
Wire	1Ø2W or 1Ø3W	3Ø3W (Delta) or 3Ø4W (Wye with Neutral)
Primary Voltage	100V, 120V, 200V, 220V, 230V, 240V, 3.3KV, 11KV, 22KV; other voltages on request	220V, 380V, 440V, 460V, 575V, 3.3KV, 11KV, 22KV; other voltages on request
Secondary Voltage	Same as Primary options	Same as Primary options
Tap Range	±2.5%, ±5%	
Vector Group	Dyn1 or Dyn11 (Others on request)	
Standards	CNS 598, CNS 599, or applicable national standards	
Efficiency	≧98 % at Full Load	
Cooling Type	Oil Immersed Cooling type	
Dielectric Strength	AC 2000V, 60Hz, 1 minute (Primary and Secondary to Earth)	
Insulation Resistance	＞100MΩ, Primary and Secondary to Earth (1000V Megohmmeter)	
Winding Connection	Delta or Wye	
Audible Noise	< 65dBA at 1meter	
Operating Temperature	0℃ - 40℃	
Relative Humidity	0 - 90%, non-condensing (at 25℃)	
Altitude	Below 3,000 meter Above sea level	

- Specifications are subject to change without prior notice.

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SATECH POWER
Industrial Grade Power System

Dry-Type Transformer

STD Series

Isolation, Variable-Voltage and Special-Purpose Transformers | 10KVA – 500KVA





Key Features

- **High Efficiency.** High-permeability, grain-oriented silicon steel minimizes no-load (iron) loss, and an optimized coil structure reduces load (copper) loss, lowering both energy consumption and electricity cost.
- **Compact Footprint.** Reduced losses allow a smaller measurement, and a smaller installation space.
- **Flexible Vector Groups.** Delta or Wye windings, including Dyn11 on request.
- **Flexible Configuration.** Options include a cubicle with casters, input and output terminal block, input circuit breaker, input voltmeter, power on indicator, and cooling fans.

Technical Specifications

Phase	Single Phase	Three Phase
Capacity	1 – 150KVA	5 - 500KVA
Wire	1Ø2W or 1Ø3W	3Ø3W (Delta) or 3Ø4W (Wye with Neutral)
Primary Voltage	110V System: 100V, 110V, 115V, 120V; 220V System: 200V, 220V, 230V, 240V; other voltages on request	220V, 380V, 440V, 460V, 575V; other voltages on request
Secondary Voltage	Same as Primary options	Same as Primary options
Vector Group	Dyn11 available on request	
Frequency	50 / 60Hz	
Efficiency	＞95% (AC to AC)	
Insulation Class	A (105℃), B (130℃), F (155℃), or H (180℃)	
Insulation Resistance	≧200MΩ at DC 500 V	
Withstand Voltage	AC 2000V	
Impedance	2 – 5% at 50 / 60 Hz	
Cooling Type	Natural Air or Forced Air	
Noise Level	< 60 dBA at 1meter	
Operating Temperature	0℃ - 40℃	
Relative Humidity	0 - 90%, non-condensing	

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