



AIR/OIL COOLED TRANSFORMER RECTIFIERS

PRODUCT DATA SHEET

Air Cooled Transformer Rectifiers

This air-cooled transformer rectifier is a kind of automatic controlled transformer, used as the DC power for impressed current cathodic protection. With the advantages of compact structure and light weight, it is ideal for smaller installations in cleaner environments. Typically, it is widely used for the cathodic protection of long pipelines, tank interior bottom, buried or submerged steel structure, etc.

FUNCTIONS

- Rectifier Module: Thyristor / High Frequency Switch / Silicon Rectifier
- Mode Switch: Auto / Manual(25-step outputs)
- Touch Screen Panel
- LED Digital Display
- Timing Interruption Program
- Surge Protection
- Lightning Protection (optional)
- Sun Protection (optional)
- Data Remote Transmission and Control (optional)
- GPS Synchronization Current Interrupter (optional)

TECHNICAL MEASUREMENT

- AC Input: Single-phase, $220 \pm 10\%V$, $50 \pm 5\%Hz$
Three-phase, $380 \pm 10\%V$, $50 \pm 5\%Hz$
- DC Output: 100V, 50A
- Insulation Resistance: $>10m\Omega$
- Control Range: $-3V \sim 3V$
- Control Accuracy: 10mV
- Noise: $<80\text{ dB}$
- IP Level: IP44 / IP66

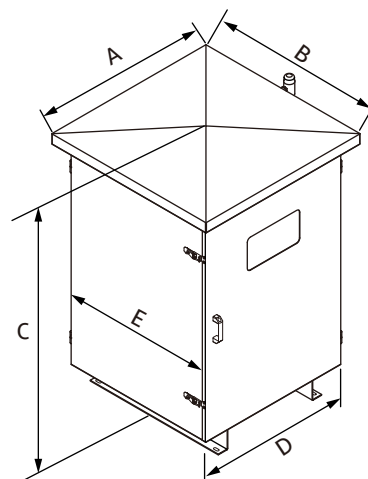
WORKING ENVIRONMENT

- Temperature: $15^{\circ}\text{C} \sim 50^{\circ}\text{C}$
- Humidity: 15% ~ 90% RH
- Air Pressure: 86kPa ~ 106kPa
- Lifetime: 30 yrs.

■ Stainless Steel Enclosure



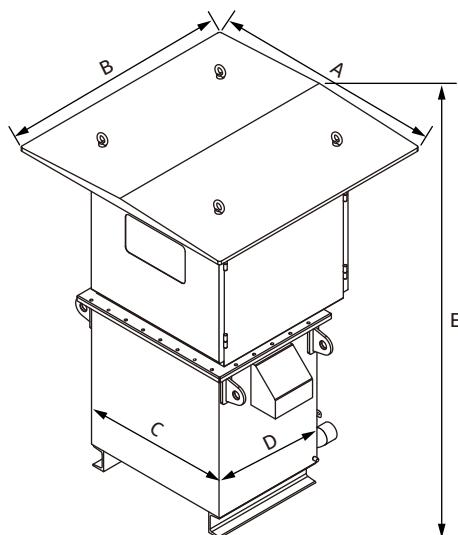
■ Steel Enclosure (RAL 7035)



Item No.	Rated Power	Length (A)	Width (B)	Height (C)	Door Width (D)	Depth (E)
YX-AN01	$\leq 1.5\text{kVA}$	670mm (26.4")	570mm (22.4")	1020mm (40.2")	550mm (21.7")	450mm (17.7")
YX-AN02	1.5kVA ~ 5kVA	870mm (34.3")	720mm (28.3")	1160mm (45.7")	720mm (28.3")	570mm (22.4")
YX-AN03	5kVA ~ 15kVA	900mm (35.4")	800mm (31.5")	1240mm (48.8")	720mm (28.3")	620mm (24.4")



Forced Air Cooled Transformer Rectifiers



FUNCTIONS

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- Surge Protection
- Lightning Protection (optional)
- Sun Protection (optional)
- Data Remote Transmission and Control (optional)
- GPS Synchronization Current Interrupter (optional)

TECHNICAL MEASUREMENT

- AC Input: Single-phase, $220 \pm 10\%V$, $50 \pm 5\%Hz$
Three-phase, $380 \pm 10\%V$, $50 \pm 5\%Hz$
- DC Output: 100V, 50A
- Insulation Resistance: $>10m\Omega$
- Control Range: $-3V \sim 3V$
- Control Accuracy: 10mV
- Noise: $<80\text{ dB}$
- IP Level: IP44 / IP66

WORKING ENVIRONMENT

- Temperature: $15^{\circ}\text{C} \sim 50^{\circ}\text{C}$
- Humidity: 15% ~ 90% RH
- Air Pressure: 86kPa ~ 106kPa
- Lifetime: 30 yrs.

Automatic Type (Conventional Transformer)

Item No.	Rated Power	Length (A)	Width (B)	Door Width (C)	Depth (D)	Height (E)
YX-AFA01	$\leq 1.5\text{kVA}$	1000mm (39.4")	800mm (31.5")	710mm (28.0")	450mm (17.7")	1200mm (47.2")
YX-AFA02	1.5kVA ~ 5kVA	1000mm (39.4")	800mm (31.5")	710mm (28.0")	450mm (17.7")	1350mm (53.1")
YX-AFA03	5kVA ~ 15kVA	1000mm (39.4")	900mm (35.4")	710mm (28.0")	500mm (19.7")	1500mm (59.1")

Manual Type (Variable Autotransformer)

Item No.	Rated Power	Length (A)	Width (B)	Door Width (C)	Depth (D)	Height (E)
YX-AFM01	$\leq 1.5\text{kVA}$	1100mm (43.3")	1100mm (43.3")	800mm (31.5")	600mm (23.6")	1450mm (57.1")
YX-AFM02	1.5kVA ~ 5kVA	1100mm (43.3")	1100mm (43.3")	800mm (31.5")	600mm (23.6")	1600mm (63.0")
YX-AFM03	5kVA ~ 15kVA	1100mm (43.3")	1100mm (43.3")	800mm (31.5")	700mm (27.6")	1750mm (68.9")



Oil Cooled Transformer Rectifiers

Oil cooled transformer rectifier is the simplest cooling system, where natural convectional flow of oil is used to reduce the temperature gradient between transformer and the outside ambient. It is generally used in severe weather conditions where air cooled rectifier will not withstand these weatherly conditions - such as deserts, offshore, atmospheric aggressive environment, hazardous and explosive environments, etc.

FUNCTIONS

- Rectifier Module: Thyristor / Silicon Rectifier
- Mode Switch: Auto / Manual(25-step outputs)
- Touch Screen Panel
- LED Digital Display
- Timing Interruption Program
- Surge Protection
- Lightning Protection (optional)
- Sun Protection (optional)
- Explosion Proof (optional)
- Data Remote Transmission and Control (optional)
- GPS Synchronization Current Interrupter (optional)

TECHNICAL MEASUREMENT

- AC Input: Single-phase, $220\pm 10\%V$, $50\pm 5\%Hz$
Three-phase, $380\pm 10\%V$, $50\pm 5\%Hz$
- DC Output: 100V, 50A
- Insulation Resistance: $>10m\Omega$
- Control Range: $-3V\sim 3V$
- Control Accuracy: 10mV
- Noise: $<80\text{ dB}$
- IP Level: IP55 / IP66

WORKING ENVIRONMENT

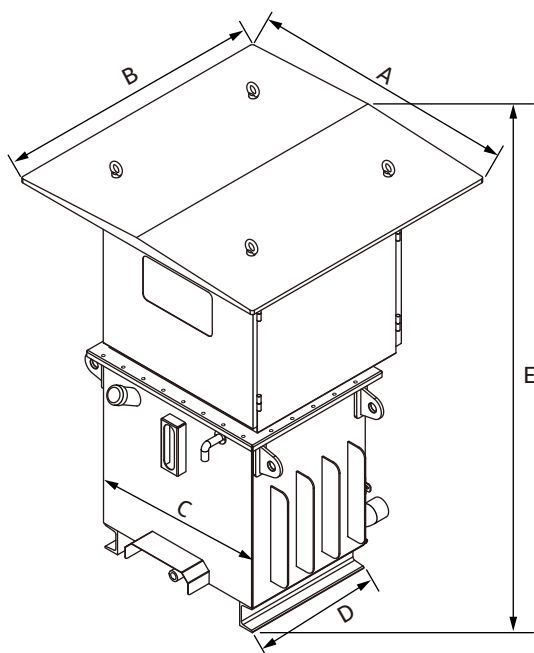
- Temperature: $15^{\circ}C \sim 50^{\circ}C$
- Humidity: 15% ~ 90% RH
- Air Pressure: 86kPa ~ 106kPa
- Lifetime: 30 yrs.



Item No.	Rated Power	Length (A)	Width (B)	Height (C)	Depth (D)	Door Width (E)
YX-OLRA01	$\leq 1.5kVA$	1000mm (39.4")	760mm (29.9")	1100mm (43.3")	760mm (29.9")	600mm (23.6")
YX-OLRA02	1.5kVA ~ 5kVA	1000mm (39.4")	760mm (29.9")	1200mm (47.2")	760mm (29.9")	600mm (23.6")
YX-OLRA03	5kVA ~ 15kVA	1100mm (43.3")	760mm (29.9")	1200mm (47.2")	860mm (33.9")	600mm (23.6")



Oil Cooled Transformer Rectifiers



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- Timing Interruption Program
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- Lightning Protection (optional)
- Sun Protection (optional)
- Explosion Proof (optional)
- Data Remote Transmission and Control (optional)
- GPS Synchronization Current Interrupter (optional)

TECHNICAL MEASUREMENT

- AC Input: Single-phase, $220\pm 10\%$ V, $50\pm 5\%$ Hz
Three-phase, $380\pm 10\%$ V, $50\pm 5\%$ Hz
- DC Output: 100V, 50A
- Insulation Resistance: $>10\text{m}\Omega$
- Control Range: $-3\text{V}\sim 3\text{V}$
- Control Accuracy: 10mV
- Noise: $<80\text{ dB}$
- IP Level: IP55 / IP66

WORKING ENVIRONMENT

- Temperature: $15^{\circ}\text{C} \sim 50^{\circ}\text{C}$
- Humidity: 15% ~ 90% RH
- Air Pressure: 86kPa ~ 106kPa
- Lifetime: 30 yrs.

Automatic Type (Conventional Transformer)

Item No.	Rated Power	Length (A)	Width (B)	Door Width (C)	Depth (D)	Height (E)
YX-OUDA01	$\leq 1.5\text{kVA}$	1000mm (39.4")	800mm (31.5")	710mm (28.0")	450mm (17.7")	1200mm (47.2")
YX-OUDA02	1.5kVA ~ 5kVA	1000mm (39.4")	800mm (31.5")	710mm (28.0")	450mm (17.7")	1350mm (53.1")
YX-OUDA03	5kVA ~ 15kVA	1000mm (39.4")	900mm (35.4")	710mm (28.0")	500mm (19.7")	1500mm (59.1")

Manual Type (Variable Autotransformer)

Item No.	Rated Power	Length (A)	Width (B)	Door Width (C)	Depth (D)	Height (E)
YX-OUDM01	$\leq 1.5\text{kVA}$	1100mm (43.3")	1100mm (43.3")	800mm (31.5")	600mm (23.6")	1450mm (57.1")
YX-OUDM02	1.5kVA ~ 5kVA	1100mm (43.3")	1100mm (43.3")	800mm (31.5")	600mm (23.6")	1600mm (63.0")
YX-OUDM03	5kVA ~ 15kVA	1100mm (43.3")	1100mm (43.3")	800mm (31.5")	700mm (27.6")	1750mm (68.9")





Industrial Corrosion Control Solutions Provider

Established in 2003, YUXI has over a 20-year heritage of innovation in corrosion control science and technology. We're a spirited team of ambitious thinkers and pioneer sheeps with a common goal in mind: protect our clients' assets from corrosion with cost-saving measures.

We have the most comprehensive catalog of cathodic protection materials including anodes, transformer rectifiers, backfills, coatings, etc. Our anodes and supplies are manufactured to strict quality standards through an ISO 9001 quality management system and are guaranteed to offer excellent performance in the industry.



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