



AIR/OIL COOLED TRANSFORMER RECTIFIERS



50 YEARS PROVEN EXPERIENCE IN CATHODIC PROTECTION



JENNINGS ANODES

AIR COOLED TRANSFORMER RECTIFIERS

DATA SHEET

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 Ω
- Control Range: -3V ~ 3V
- Control Accuracy: 10mV
- Noise: <80 dB
- IP Level: IP44 / IP66

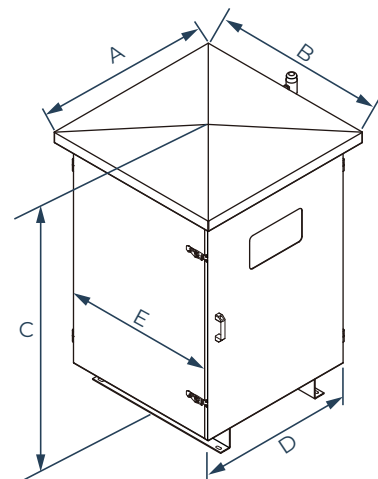
Working Environment

- Temperature: 15°C ~ 50°C
- Humidity: 15% ~ 90% RH
- Air Pressure: 86kPa ~ 106kPa
- Lifetime: 30 yrs.

■ Steel Enclosure (RAL 7035)



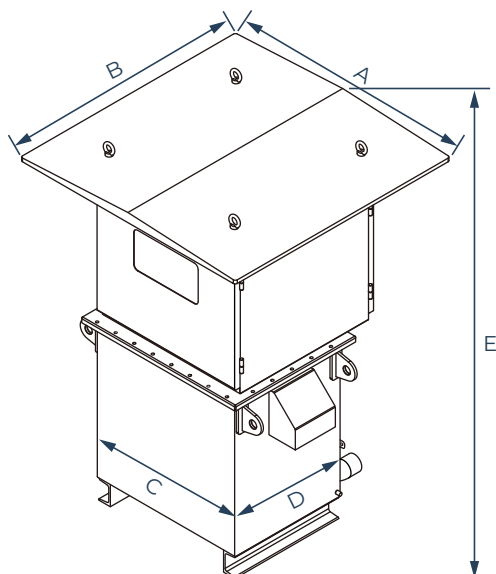
■ Stainless Steel Enclosure



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

FORCED AIR COOLED TRANSFORMER RECTIFIERS

DATA SHEET



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 Ω
- Control Range: -3V ~ 3V
- Control Accuracy: 10mV
- Noise: <80 dB
- IP Level: IP44 / IP66

Working Environment

- Temperature: 15°C ~ 50°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)
JA-AFA01	$\leq 1.5\text{kVA}$	39.4" (1000 mm)	31.5" (800 mm)	28.0" (710 mm)	17.7" (450 mm)	47.2" (1200 mm)
JA-AFA02	1.5kVA ~ 5kVA	39.4" (1000 mm)	31.5" (800 mm)	28.0" (710 mm)	17.7" (450 mm)	53.1" (1350 mm)
JA-AFA03	5kVA ~ 15kVA	39.4" (1000 mm)	35.4" (900 mm)	28.0" (710 mm)	19.7" (500 mm)	59.1" (1500 mm)

■ Manual Type (Variable Autotransformer)

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

OIL COOLED TRANSFORMER RECTIFIERS

DATA SHEET

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)
JA-OLRA01	$\leq 1.5kVA$	39.4" (1000 mm)	29.9" (760 mm)	43.3" (1100 mm)	29.9" (760 mm)	23.6" (600 mm)
JA-OLRA02	1.5kVA ~ 5kVA	39.4" (1000 mm)	29.9" (760 mm)	47.2" (1200 mm)	29.9" (760 mm)	23.6" (600 mm)
JA-OLRA03	5kVA ~ 15kVA	43.3" (1100 mm)	29.9" (760 mm)	47.2" (1200 mm)	33.9" (860 mm)	23.6" (600 mm)

OIL COOLED TRANSFORMER RECTIFIERS

DATA SHEET



Functions

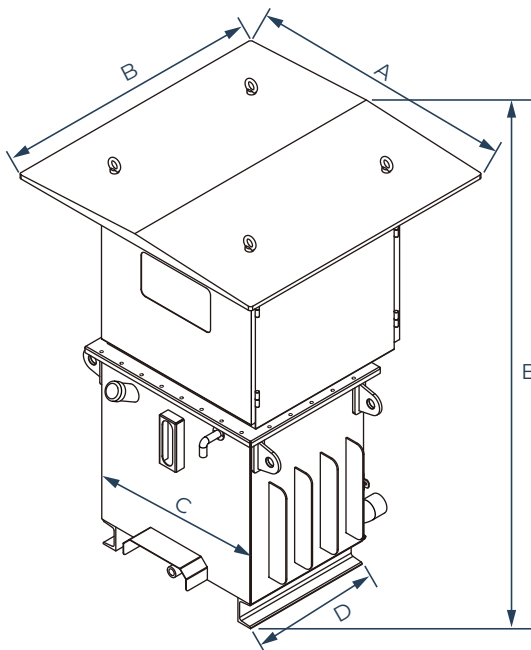
- Rectifier Module: Thyristor / Silicon Rectifier
- Mode Switch: Auto / Manual(25-step outputs)
- Touch Screen Panel
- LED Digital Display
- Timing Interruption Program
- Surge Protection
- Lightning Protection (optional)
- Sun Protection (optional)
- Explosion Proof (optional)
- Data Remote Transmission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



■ Automatic Type (Conventional Transformer)

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

■ Manual Type (Variable Autotransformer)

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



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