Xenerpower USA
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Data Sheet

PRODUCT DESCRIPTION

Xenerpower Series: **Fluid-Immersed Distribution Transformer Substation**
Product Model: **S-2500-12.47/0.48**
Basic Price ..... **$**

PRODUCT IMAGES[1]



KEY FEATURES

- **Reliable Design**: Fluid-filled, substation transformer designed for power distribution
- **Fully Sealed and Insulated**: Provides robust personal safety without additional insulation spacing
- **Superior Performance**: Features low-loss design, minimal noise, low-temperature rise, robust overload capability, and short-circuit resistance
- **Typical Connections:** Flexible connection methods for High Voltage and Low Voltage, generally dead front for medium voltage ranges and live front for low voltage ranges
- **Standards Compliance**: Meets ANSI C57.12 Series, DOE 2016 efficiency requirement, and related NEC, NEMA standards. Product

[1]Images are for reference only, real product may differ

- **Physical Features**: Lifting lugs, bolted GND terminals, hinged doors, voltage barriers, and anti-corrosion surface finish

PRODUCT SPECIFICATIONS[2]

Main Technical Parameters

Capacity:	2,500 / 2,875 kVA at KANN / KNAF
High Voltage:	12,470 V Delta
HV BIL:	95 kV
Low Voltage:	480 / 277 V Wye
LV BIL:	30 kV
Vector Group:	Dyn1
Frequency:	60 Hz
Temperature Rise:	65°C over ambient
Noise:	≤65 dBA @ 3 ft
Impedance Rating (Z%):	5.75 % ± 7.5%
Electrical Efficiency:[3]	99.53 %

General Information

Installation Location:	Outdoor Weather Proof
Whole Dimensions:	3,200 x 2,800 x 2,100 mm[4] (W x D x H)
Whole Weight:	7,100 kg
High Voltage Terminals:	Deadbreak 600A 15kV one-piece bushing x 3
High Voltage Bushing Location	Sidewall
High Voltage Enclosure Type:	Throat
Low Voltage Terminals:	Porcelain spade bushing x 4
Low Voltage Bushing Location	Sidewall
Low Voltage Enclosure Type:	Full Height Air Chamber, Bottom Entry, Hinged Door with Padlock Provisions
HV Tap Changer:	5 positions, ±2.5% x 2
Ambient Temperature Rating:	40 °C
Ambient Elevation Rating:	3,300 ft

Optional and Effective Items

Windings Material:	C - Copper
Insulated Fluid Type:	F - Natural Ester FR3
Cooling Class：	KNAN/KNAF - Natural Ester Air Natrual/Forced
Cooling Solution:	Cooling fans (120V) with temperature control
Housing Material:	Z - Coated steel with C4 corrosion protection
Coating:	ANSI 61 Gray
Radiators:	SS304 panel style

[2] Specifications are subject to change without notice
[3] Efficiency is measured at 50 percent of nameplate-rated load based on 55 °C reference temperature.
[4] Whole size includes cooling fins and throat ducts

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Tank Construction:	Fully sealed, without conservator
Control Box:	NEMA 4X SS304 with pad lockable handle and breather/drain

Protection & Accessories

HV Arrestor:	CLU Under-oil Distribution Class, 15 kV
LV Arrestor:	Polymer-housed Type UI, 9 kV Intermediate Class
Pressure Relief Device:	Automatic pressure relief device with alarm contact
Rapid Relief Device	Cover Mounted - in Air - Threaded
Liquid Level Gauge:	Included with 2 sets of dry-contact signal
Fluid Temp. Gauge:	Included with 2 sets of dry-contact signal
Winding Temp. Indicator:	Included with 3 sets of dry-contact signal
Pressure/Vacuum Gauge:	Included with 2 sets of dry-contact signal
Nitrogen Blanket:	Equipped with 2 purge valves
Fill Port:	Global valve included in pad lockable box
Drain Port:	Global valve with sampler port included in pad lockable box

ADDITIONAL COMMENTS FOR SPECIAL REQUEST