

SmartOnline S3MT-Series 3-Phase 30kVA Input (480V to 208V)/Output (208V to 480V) Isolation Transformers

MODEL NUMBER: **S3MT-30KWR480V**



Enclosure with step-down and step-up transformers offers line isolation and protection to the connected 3-phase UPS and its load.

Features

Get Complete Step-Down/Step-Up and Isolation Protection

S3MT-30KWR480V includes two transformers in a single cabinet: a 480V (Delta) to 208V (Wye) input isolation step-down transformer and a 208V (Wye) to 480V (Wye) output auto step-up transformer. It isolates the UPS and connected components from line surges and spikes caused by utility power disruptions that can damage equipment or corrupt data. The dual transformers are ideal for 4-wire (3Ph+N+PE) loads in government, manufacturing, healthcare and corporate settings with 480V electrical mains and 480V IT loads.

Performs with High Efficiency up to 97.5%

Not only is the S3MT-30KWR480V wrap-around transformer very efficient, with up to 97.5 percent efficiency, but it is also very quiet with a noise profile less than 65 dBA. Built-in circuit breakers on both transformers help prevent dangerous power overloads. Four ball-bearing cooling fans help prevent overheating. An overheat-sensing relay and switch combine with red alarm indicators to provide over-temperature warning and overheating protection.

Small Footprint for Quick Installation in a Compact Space

The compact footprint enables installation of the S3MT-30KWR480V with minimal space. The rugged stainless steel housing ships ready for immediate tower installation with a compatible 20–30kVA/kW S3M-Series 3-phase UPS system.

Highlights

- Dual 30kVA/kW 480V transformers for government, healthcare and corporate settings
- Up to 97.5% efficiency with a quiet acoustic profile less than 65 dBA
- Resettable protection relay/switch and red alarm indicators warn against overheating
- Rugged stainless steel housing with compact footprint comes ready for installation
- Compatible with select 20–30kVA/kW S3M-Series 208V 3-phase UPS systems

Applications

Protect equipment in government, healthcare, manufacturing, corporate and other settings that have 480V electrical mains and 480V IT loads

System Requirements

- 20–30kVA/kW S3M-Series 208V 3-phase UPS system
- Not compatible with SUT20K or SUT30K

Package Includes

- S3MT-30KWR480V 3-Phase 30kVA Input/Output Isolation Transformers
- (4) Bottom skirts
- (24) Screws
- Owner's manual

Specifications

OVERVIEW	
UPC Code	037332253194
Efficiency	96.5% @ 100% load
Nominal Voltage / Frequency	Input transformers (T-in) 480V / Output transformer (T-out) 208V, 3-PH / 60Hz



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VA / Watt Capacity	30000
Transformer Type	Dry type, Input step-down isolation transformer and Output step-up Auto Transformer
INPUT	
Input Phase	3-Phase
Nominal Input Voltage(s) Supported	480V 3-PH Delta
UPS Input Connection Type	Hardwire
OUTPUT	
Output Capacity (VA)	30000
Output Capacity (kVA)	30
Nominal Output Voltage(s) Supported	480V 3-PH Wye
Output Receptacles	Hardwire
PHYSICAL	
Primary Form Factor	Tower
Cooling Method	4 x BALL BEARING, 120MM (576 TOTAL CFM)
Form Factors Supported	Tower
Shipping Dimensions (hwd / in.)	70.90 x 27.60 x 37.80
Shipping Weight (kg)	479.90
Unit Dimensions (hwd / in.)	63.000 x 23.600 x 33.500
Unit Dimensions (hwd / cm)	160 x 60 x 85
Unit Weight (lbs.)	961
Unit Weight (kg)	435.90
ENVIRONMENTAL	
Online Mode Heat Dissipation (BTU/Hr) @ Full Load	9829
INPUT TRANSFORMER	
Input Voltage	480V 3-PH Delta
Input Voltage Range	(-45%, +25%) for 40% load (-20%, +25%) for 100% load
Input Amp(s)	51 A
AC Input Configuration	Delta
AC Input Frequency	50/60
Frequency Range	40/70Hz
Voltage Selection	NONE
Input Inrush Current	450 A

VA Rating	30K
Input Number of Phases	3PH
AC Output Voltage (V)	120/208V 3-PH Wye
AC Output Amps	113 A
Output Number of Phases	3PH + N
AC Output Configuration	WYE
Output Isolation	Yes
Output Breaker Rating	125 A
Connection Type	COPPER BAR
LED Warning Light Functions	The over-temperature warning LED light will turn ON when the output/secondary of the Input transformer reaches 160°C ±5°C and will turn OFF when the corresponding transformer cools down to 125°C ±5°C
Over Temperature Reset	The transformers include an over-temperature protection relay and thermal switch on the secondary sides of the input (T-in) transformer and on the primary side of the output (T-out) transformer to protect the transformer from overheating. Thermal switches on input and output transformers will open the corresponding transformer breaker if either of the transformer reaches 155°C/311°F to 165°C/329°F. Once the transformer cools down to 120°C/248°F to 130°C/266°F, the corresponding warning LED light will turn OFF, and the corresponding transformer breaker maybe closed to restart operation.
Efficiency @ Half Load	97.50%
Efficiency @ Full Load	0.952
Heat Dissipation (BTU/Hr) @ Full Load	9829
Audible Noise (dBA @ 1m)	65dB max

APPLICATIONS

UPS Applications	Mission Critical Applications
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OUTPUT TRANSFORMER

Input Voltage	120/208V 3-PH Wye
Input Voltage Range	(-45%,+25%)for 40 % load (-20%,+25%)for 100 % load
Input Amp(s)	87 A
AC Input Configuration	WYE
AC Input Frequency	50/60 HZ
Frequency Range	40-70HZ
Input Inrush Current	1010 A
Input Number of Phases	3PH+N
VA Rating	30K
AC Output Voltage (V)	480V 3-PH Wye
AC Output Amps	36 A
Output Number of Phases	3PH+N
AC Output Configuration	WYE



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Output Isolation	No
Output Breaker Rating	125 A
Connection Type	COPPER BAR
LED Warning Light Functions	The over-temperature warning LED light will turn ON when the input/primary of the Output transformer reaches 160°C ±5°C and will turn OFF when the corresponding transformer cools down to 125°C ±5°C
Over Temperature Reset	The transformers include an over-temperature protection relay and thermal switch on the secondary sides of the input (T-in) transformer and on the primary side of the output (T-out) transformer to protect the transformer from overheating. Thermal switches on input and output transformers will open the corresponding transformer breaker if either of the transformer reaches 155°C/311°F to 165°C/329°F. Once the transformer cools down to 120°C/248°F to 130°C/266°F, the corresponding warning LED light will turn OFF, and the corresponding transformer breaker maybe closed to restart operation.
Efficiency @ Half Load	97.50%
Efficiency @ Full Load	0.952
Heat Dissipation (BTU/Hr) @ Full Load	9829
Audible Noise (dBA @ 1m)	65dB max
STANDARDS & COMPLIANCE	
Product Compliance	RoHS
WARRANTY & SUPPORT	
Product Warranty Period (Worldwide)	2-year limited warranty
Product Warranty Period (U.S. & Canada)	2-year limited warranty

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