

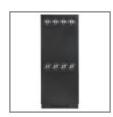
Tripp Lite

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# SmartOnline S3MT-Series 3-Phase 100kVA Input (480V to 208V)/Output (208V to 480V) Isolation Transformers

## MODEL NUMBER: S3MT-100KWR480V











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

Tripp Lite's S3MT-100KWR480V 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 97.8%

Not only is the S3MT-100KWR480V wrap-around transformer very efficient, with up to 97.8 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. Eight ball-bearing cooling fans help prevent overheating. An overheat-sensing relay and switch combine with red alarm indicators to provide overtemperature warning and overheating protection.

#### Small Footprint for Quick Installation in a Compact Space

The compact footprint enables installation of the S3MT-100KWR480V with minimal space. The rugged stainless steel housing ships ready for immediate tower installation with a compatible 80–100kVA/kW Tripp Lite S3M-Series 3-phase UPS system.

 Dual 100kVA/kW 480V transformers for government, healthcare and corporate settings

**Highlights** 

- Up to 97.8% 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 80–100kVA/kW Tripp Lite 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**

80-100kVA/kW Tripp Lite S3M-Series 208V 3-phase UPS system

### **Package Includes**

- S3MT-100KWR480V 3-Phase 100kVA Input/Output Isolation Transformers
- (4) Bottom skirts
- (24) Screws
- Owner's manual

# **Specifications**

OVERVIEW	
UPC Code	037332253217
Efficiency	96.7% @ full load





Nominal Voltage / Frequency	Input transfomers (T-in) 480V / Output transformer (T-out) 208V, 3-PH / 60Hz	
VA / Watt Capacity	100000	
Transformer Type	Dry type, Input step-down isolation transformer and Output step-up Auto Transformer	
INPUT		
Nominal Input Voltage(s) Supported	480V 3-PH Delta	
UPS Input Connection Type	Hardwire	
Input Phase	3-Phase	
ОИТРИТ		
Output Volt Amp Capacity (VA)	100000	
Output Capacity (kVA)	100	
Output Receptacles	Hardwire	
PHYSICAL		
Primary Form Factor	Tower	
Cooling Method	8 x BALL BEARING, 172x152mm (1928 TOTAL CFM)	
Form Factors Supported	Tower	
Shipping Dimensions (hwd / in.)	85.40 x 27.60 x 37.80	
Shipping Weight (kg)	939.84	
Unit Dimensions (hwd / in.)	77.6 x 23.6 x 33.5	
Unit Dimensions (hwd / cm)	197.1 x 60 x 85	
Unit Weight (lbs.)	1960	
Unit Weight (kg)	889.04	
ENVIRONMENTAL		
Heat Dissipation (BTU/Hr) @ Full Load	22526	
INPUT TRANSFORMER		
Input Voltage	480V	
Input Voltage Range	(-45%, +25%) for 40% load (-20%, +25%) for 100% load	
Input Amp(s)	168 A	
AC Input Configuration	Delta	
AC Input Frequency	50/60	
Frequency Range	40/70Hz	
Voltage Selection	NONE	
Input Inrush Current	1450 A	



T
100K
3PH
480 V
374 A
3PH + N
WYE
Yes
400 A
COPPER BAR
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
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.
97.80%
96.70%
22526
65dB max
208 V
(-45%,+25%)for 40 % load (-20%,+25%)for 100 % load
287 A
WYE
50/60 HZ
40-70HZ
3330 A
3PH+N
100K
480 V
120 A
3PH+N
WYE
No
110





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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 withen 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	97.80%
Efficiency @ Full Load	96.70%
Heat Dissipation (BTU/Hr) @ Full Load	22526
Audible Noise (dBA @ 1m)	65dB max
WARRANTY	
Product Warranty Period (Worldwide)	2-year limited warranty
Product Warranty Period (U.S. & Canada)	2-year limited warranty

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