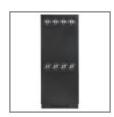


SmartOnline S3MT-Series 3-Phase 100kVA Input (480V to 208V)/Output (208V to 480V) Isolation Transformers

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

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 S3M-Series 3-phase UPS system.

Specifications

OVERVIEW	
UPC Code	037332253217
Efficiency	96.7% @ full load

Highlights

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



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		
Input Phase	3-Phase	
Nominal Input Voltage(s) Supported	480V 3-PH Delta	
UPS Input Connection Type	Hardwire	
OUTPUT		
Output Capacity (VA)	100000	
Output Capacity (kVA)	100	
Nominal Output Voltage(s) Supported	480V 3-PH Wye	
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.)	77.600 x 23.600 x 33.500	
Unit Dimensions (hwd / cm)	197.1 x 60 x 85	
Unit Weight (lbs.)	1960	
Unit Weight (kg)	889.04	
ENVIRONMENTAL		
Online Mode Heat Dissipation (BTU/Hr) @ Full Load	22526	
INPUT TRANSFORMER		
Input Voltage	480V 3-PH Delta	
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	
VA Rating	100K	
Input Number of Phases	3PH	
AC Output Voltage (V)	120/208V 3-PH Wye	
AC Output Amps	374 A	
Output Number of Phases	3PH + N	
AC Output Configuration	WYE	
Output Isolation	Yes	
Output Breaker Rating	400 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 wthen 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	
APPLICATIONS		
UPS Applications	Mission Critical Applications	
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)	287 A	
AC Input Configuration	WYE	
AC Input Frequency	50/60 HZ	
Frequency Range	40-70HZ	
Input Inrush Current	3330 A	
Input Number of Phases	3PH+N	
VA Rating	100K	
AC Output Voltage (V)	480V 3-PH Wye	
AC Output Amps	120 A	



Output Number of Phases	3PH+N	
AC Output Configuration	WYE	
Output Isolation	No	
Output Breaker Rating	400 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 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	
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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