



MBC45ITCT STEP-DOWN TRANSFORMER



Safeguard mission-critical applications with seamless power protection.

The CyberPower maintenance bypass cabinet, MBC45ITCT, is a 45kW step-down transformer that converts 600V or 480V 3-phase input voltage originating from utility power to 208V 3-phase output. The MBC45ITCT has a rated power capacity of 10kW to 40kW. For use with either the CyberPower SM020KAMFA 20kVA 208V 3-phase system or the SM040KAMFA 40kVA 208V 3-phase system. A Three-Year Warranty ensures that this step-down transformer has passed our highest quality standards in design, assembly, material or workmanship. It integrates an isolation step-down transformer and a maintenance bypass switching assembly in a single enclosure.

The MBC45ITCT is installed as part of the UPS power system to support maintenance bypass operation. In the normal power path, the MBC is supplied from the UPS output and provides a 120/208 V (3-Phase, 4-Wire) output interface via the internal busbars for connection to customer-provided downstream distribution equipment (e.g., a distribution panelboard).

For site utility compatibility, the MBC provides exclusive input selection: 480 V (3-Phase, 3-Wire) or 600 V (3-Phase, 3-Wire). Only one input interface shall be used for a given installation; concurrent connection and/or use of both input interfaces is prohibited.

TYPICAL APPLICATIONS

- Core Network Equipment
- Hyperconverged Infrastructure (HCI)
- Server Rooms
- Server Virtualization Infrastructures (VMware, Hyper-V, Citrix)
- Storage Systems
- VoIP Infrastructure
- Corporate Servers
- Enterprise Servers

FEATURES

- Step-down transformer: 10kW - 40kW
- Output: 208/120V, (3-Phase, 4-Wire), 60 Hz
- Power conversion: 600V or 480V 3phase from utility to 208V 3-phase output
- Connection Type: Copper Bar, 2 x Input: 600V, 480V; 1 x Output: 208V; 1 x DC Input: B+, B-
- Overload protection: Input, Output, Maintenance circuit breakers
- Over temperature protection: Yes
- Warranty: Three-Year

ELIGIBLE MODELS

- SM020KAMFA
- SM040KAMFA

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SPECIFICATIONS - CONT.

INPUT	
Input Frequency Range	40 Hz - 70 Hz
Input Plug Type	Hardwire
Nominal Input Voltage	480 - 600 VAC
OUPUT	
Nominal Output Voltage	208 VAC
Outlet Type	Hardwire Terminal Block
Output Frequency	50/60 Hz (auto-sensing/configurable)
Overload Protection	Circuit Breaker Protected
VA	45,000
Watts	45,000
PHYSICAL	
Color	Black
Form Factor	Tower
Material of Construction	Metal
DIMENSIONS	
Dimensions - Width/Height/Depth (cm)	48.49 x 94.31 x 77.5 cm
Dimensions - Width/Height/Depth (mm)	485 x 943 x 775 mm
Dimensions - Width/Height/Depth (in.)	19.09 x 37.13 x 30.51 in
Weight (kg)	236.18 kg
Weight (lbs.)	520.69 lbs.

ENVIRONMENTAL	
Audible noise at 1m from surface of unit	58 dBA
Operating Elevation	0 - 10,000 ft (0 - 3,048 m)
Operating Relative Humidity	0 - 90 % (non-condensing)
Operating Temperature	32 - 104 °F (0 - 40 °C)
Storage Elevation	0 - 50,000 ft (0 - 15,239 m)
Storage Relative Humidity	0 - 95 % (non-condensing)
Storage Temperature	5 - 140 °F (-15 - 60 °C)
CERTIFICATIONS	
Environmental	RoHS Compliant
Safety	UL1778
WARRANTY	
Extended Warranty Option	WEXT5YR-ACC2C
Product Warranty	3-Year Limited