

KOHLER®

UNINTERRUPTIBLE
POWER



KOHLER MIPS

Medical Isolated Power Supply for Electrical Medical IT Systems

Innovative design, *trusted* support.

Premium quality, high specification isolated power supply (IPS) designed for medical electrical IT systems.

Easily integrates with Kohler's UPS and generator systems, and backed by its best-in-class* support.

*Verified 2018–2021 via Satmetrix survey and benchmarking. Satmetrix is a trademark of NICE Ltd.

The KOHLER MIPS system delivers patient safety and power availability backed by the reliability and support synonymous with KUP.

Our core business is the design, installation and maintenance of critical power protection systems.

We offer the most comprehensive and cost-effective service plans available, ensuring your power protection systems are expertly maintained on a regular basis and ready to support your critical load.





KOHLER MIPS

Built in the UK and designed from the outset to fully meet or exceed the requirements of UK HTM-06-01 for use in Medical Group 2 locations, the KOHLER MIPS system isolates supplies from earth, ensures continuity of power in the event of a first fault, and monitors the system for abnormal conditions. Status and alarms are reported through a range of modern, highly featured but easy to use monitoring and control panels.

Engineered to complement the many KOHLER UPS and KOHLER generator systems installed in hospitals and other healthcare facilities, systems may be configured with four different levels of power distribution (6, 12, 18 or 24 MCBs), giving flexibility of use across locations including:

- | Operating rooms
- | Recovery rooms
- | Intensive care rooms
- | Therapy rooms
- | MRI suites

Main System Cabinet - Outer and Indicators

Input fuse protection

Transfer relay

The MIPS system can be supplied by two different power sources. The transfer system allows for quick changeover between sources.

Insulation monitor

The MIPS system is fitted with an insulation monitor and earth fault detection system.

Output breakers

The output distribution can be ordered as 12, 18 or 24 way double-pole MCBs.

Input source indicators

Indicates input from independent sources

Maintenance bypass switch

The MIPS system is provided with a rotary break before make Maintenance Bypass Switch (MBS). The MBS allows the output to be connected to the ATS, or directly to the primary supply or the secondary supply, the switch also allows the output to be isolated OFF.

IP41 Construction

The MIPS cabinet is provided with IP41 dust filtration system at the bottom of the door with easily maintained filters.



Main System Cabinet - Interior

Easy installation

Top entry cable glands provide easy access to the terminals for all power, load and monitoring cable infrastructure.

Fault detection system (FDS)

Insulation fault detection device with integrated current transformers is used for detecting insulation faults in IT systems. Insulation faulty detection system consists of test device, control and indicator device, fault evaluator and current transformer.

Air circulation

Segregated fan assembly improves the overall efficiency of the system and advances independent component heat dissipation

Transformer

Medical Isolating Transformer produced to comply with EN 61558-2-15 Standards for supplying critical loads. A static screen placed between the primary and secondary windings is isolated from the fixed angle transformer core. Insulation Class F, 230V/230V design with built in temperature PTC thermistor for connection to Insulation Monitor and Earth Fault Detection System.

Preinstalled in the lower section and QC tested before despatch, assuring easy on-site commissioning



KOHLER MIPS System Overview

Main Unit

- | Control electronics in upper section
- | Transformer in lower section



4" or 7" Local Alarm Panels



Wall or Flush-mounted Central Alarm Panel



Landscape or Portrait Operating Room Control Panels



Technical specification

Model	MIPS-10-12	MIPS-10-18	MIPS-10-24
Power rating	10 kVA	10 kVA	10 kVA
Input			
Output voltage	230 VAC		
Frequency range	50 Hz / 60 Hz		
Isolation level	3 kV / 1 min		
Output			
Output protection	Miniature Circuit Breaker (MCB)		
Output distribution	12 way	18 way	24 way
Alarm output	Insulation fault / Overload / Over temperature		
Functional test	Advanced insulation fault		
Enclosed leakage current	<0.5 Ma		
Isolation fault detection period	<1 second		
General			
Cabinet protection	IP 41		
Operating temperature	0°C to +50°C		
Storage temperature	-15°C to +70°C		
Ventilation	Dual fan		
Management software	Isolation resistance by LCD screen		
Transfer system	Automatic Transfer Switch (ATS) via contactor		
Transfer time	<5 ms		
Response rate	50 – 500 kΩ		
Overall heat dissipation	<500 W		
Finish colour	RAL9003 (signal white)		
Dimensions, W x D x H	500 x 400 x 1600mm	500 x 400 x 1825mm	500 x 400 x 2050mm
Net weight	TBC		



Exceptional 24/7/365 Service Support

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Kohler Uninterruptible Power is part of Rehiko,
the new name for Kohler Energy.