

iSAFT Mains Isolation & Transformer Unit (MITU)



The iSAFT-MITU is a Power Distribution Unit (PDU), which provides full isolation between the input power source and the output. This unit has been designed to be used as a high protection and filtered element in electrical supply for electronics systems joints that are part of a system.

It consists of the Mains Isolation Transformer unit, the Distribution unit (Three Phase models only), the internal remote on/off & EPO panel and the optional external remote on/off & EPO box with the Low Voltage Indicator. Measurements for input and output power are provided on digital displays on the unit's front panel.

The iSAFT-MITU transformer is designed to be powered on with low inrush current without the use of a current limiter, preventing Start-Up Issues without the possibility of power cut off from an input fuse or hardware failure on a current limiter device.

The iSAFT-MITU integrates an Insulation Monitoring Device, which is activated in case of a single failure. Specifically, if any of the power lines gets in contact with the chassis of the equipment, the differential protection of the unit will cut-off the power supply for safety purposes.

Main Features

- Class II Isolation Transformer.
- Input & output measure of voltage & current.
- Redundant low voltage control circuit.
- Input Overvoltage Suppressors.
- EPO Unit with remote on/off.
- Rack mounted or standalone 19" Rack Cabinet.
- Optional External EPO Unit with the Low Voltage Indicator.
- Optional custom input connector.

Competitive advantages

- Start-Up low inrush current.
- Continuous insulation monitoring on the output.
- Separate ground points for input and output.
- Selectable ground schema.
- Double insulation chassis.

Key Benefits

- Proven industrial solution in various customers around Europe.
- Customization of iSAFT-MITU from 1KVA to 50KVA Output Power, according to customer and application requirements.
- The iSAFT-MITU has been integrated in various rack based test benches, automated test equipment and EGSEs for the aerospace sector.

Standards

- EN 61558-1:2005/A1:2009
- EN 61558-2-4:2009
- EN 61011-1:2010

Insulation Monitoring

The iSAFT-MITU isolation PDU device is equipped with an Isolation Monitoring Device (IMD). In case of an insulation fault, the IMD through the auxiliary contact after of 7 seconds time is switching off completely the isolation PDU and at the same time the red LED "insulation fault" lights on. The operation of the isolation PDU is going to be restored only when the insulation fault stops.

Technical Data

iSAFT-MITU-	411 / 413 / 415	435 / 4332
INPUT		
Phase	Single	Three
Voltage	230VAC	400VAC
Frequency	50-60 Hz	50-60 Hz
Current	4,6 / 13,7 / 22,8 A	7,6 / 48,7 A
OUTPUT		
Power rating	1 / 3 / 5 KVA	5 / 32 KVA
Voltage	230VAC	230/400VAC
Frequency	50-60Hz	50-60Hz
Current	4,34 / 13,05 / 21,7 A	7,2 / 46,4 A
ENVIRONMENTAL		
Ambient	0°C to 40°C	0°C to 40°C
Operating	< 95 %	< 95 %
Altitude	<1000m	<1000m
Storage	10°C to +50°C	10°C to +50°C
Efficiency at full	>95%	>95%
Dimensions	22x60x48 cm	36x60x48 / 180x90x60 cm