

Medical Isolated Power Panels



IG Series
IGP | IGT | IGH

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IG Series

Isolated power panels are used in group 2 rooms in medical locations, and they consist of auxiliary devices and test combinations such as isolated transformer, insulation monitoring device and insulation fault location devices.

In the IT system different from TN and TT systems, when an insulation failure occurs, IT systems ensures that there is no electrical problem by preventing the circuit breakers from tripping and interrupting the system. The medical equipment continues to function, the fault currents are reduced to non-critical values, and the energy interruption is prevented.

Insulation level is continuously monitored by the isolated power panels and if a value less than 50 k Ω is detected alarm is created and logged. Aforementioned alarm can also be displayed through the control panel in the operating rooms and local and remote alarm panels.

Isolated power panels, which have a fault location detection system, have the feature of detecting in which line the insulation fault occurred. Thanks to this feature, the time to detect the location of the insulation fault is reduced.

The following medical locations that carrying vital importance in hospitals and where medical devices are directly connected to patients are defined as group 2 room in accordance with IEC 60364-7-710 standard and isolated power systems are used in these rooms.

Application Areas

- Operating rooms
- Intensive care rooms
- Anesthetic rooms
- Premature baby rooms
- Operating preparation rooms
- Operating preparation rooms
- Heart catheterization rooms
- Angiographic examination rooms

Technical Specifications

- Operating rooms
- Power of system 3.15/4/5/6.3/8/10 kVA
- Rated voltage 230 Vac
- Monitoring insulation resistance, load current and temperature of the transformer
- Color of panel
 - Door RAL 9003
 - Side covers RAL 7015

Standards

- IEC 60364-7-710

Dimensions

- (WxDxH) 405 x 405 x 1700 mm

Advantages

- Compact size
- Option up to 24 outgoing



Technical Specifications

	IGP	IGT	IGH
Standards	IEC 60364-7-710	IEC 60364-7-710	IEC 60364-7-710
Rated Power	3.15/4/5/6.3/8/10 kVA	3.15/4/5/6.3/8/10 kVA	3.15/4/5/6.3/8/10 kVA
Power Supply	Main Supply	Main Supply Safety Supply	Main Supply Safety Supply
Rated Voltage Line 1	230 Vac	230 Vac	230 Vac
Rated Voltage Line 2	-	230 Vac	230 Vac
Rated Frequency	50/60 Hz	50/60 Hz	50/60 Hz
Rated Insulation Level	3 kV / 1 min	3 kV / 1 min	3 kV / 1 min
Alarm Output	Insulation Fault Over Load Over Temperature	Insulation Fault Over Load Over Temperature Switchover Failure	Insulation Fault Over Load Over Temperature Switchover Failure Insulation Fault Location
Functional Test	Insulation Fault	Insulation Fault Switchover Test	Insulation Fault Switchover Test
Leakage Current to Enclosure	<0.5mA	<0.5mA	<0.5mA
Response Range	50...750 kΩ	50...750 kΩ	50...750 kΩ
Insulation Fault Detection Time	<1s	<1s	<1s
Switchover Time	-	<200 ms	<200 ms
Operating Temperature	-5... +50 °C	-5... +50 °C	-5... +50 °C
Storage Temperature	-25... +60 °C	-25... +60 °C	-25... +60 °C
Panel Dimensions	405x405x1700mm	405x405x1700mm	405x405x1700mm
Cooling System	Fan	Fan	Fan
Protection Class	IP41	IP41	IP41
Insulation Monitoring	✓	✓	✓
Changeover Module	-	✓	✓
Insulation Fault Location	-	-	✓
Distribution Outlet	6...24	6...24	6...24
Door Color	RAL 9003	RAL 9003	RAL 9003
Side Cover Color	RAL 7015	RAL 7015	RAL 7015

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