

## ISOLATED POWER PANEL



**FOR HEALTHCARE FACILITIES**



An isolation panel (or Medical Isolated Power Panel) is a specialized electrical distribution system designed for high-safety, critical environments like operating rooms and ICUs

## KEY FEATURES AND FUNCTIONS:

**Safety & Reliability:** Converts grounded electrical systems into ungrounded ones, reducing risk of electric shock for patients, especially during surgeries.

**Continuous Operation:** In case of a single ground fault, the system remains operational, ensuring life-support equipment keeps working.

**Monitoring (LIM):** Continuously monitors the insulation level of the electrical system, triggering alarms when leakage current exceeds safe thresholds.

**Components:** Includes a transformer (typically stepping down voltage for safety), circuit breakers, a line isolation monitor, and a remote alarm panel.

**Applications:** Primarily used in ORs, ICUs, NICUs, and emergency rooms to manage sensitive medical equipment.

- 🔧 **OT'S :** Ensures continuous monitoring of electrical leakage to protect patients during surgeries.
- 🔧 **ICU :** Provides isolated power and fault detection for sensitive life-support equipment.
- 🔧 **ICCU :** Minimizes electric shock risk around cardiac monitoring and debrillator machines.
- 🔧 **NICU :** Users safe electrical environment for premature and vulnerable newborns.
- 🔧 **MICU :** Prevents current leakage near critical monitoring and respiratory systems.
- 🔧 **POST OP :** Protects recovering patients from unnoticed electrical faults and hazards.
- 🔧 **EMERGENCY :** Ensures reliable, isolated power supply for emergency life-saving equipment.
- 🔧 **GYNIC OT'S :** Prevents electrical disturbances during gynecological and obstetric surgeries.
- 🔧 **DIALYSIS UNITS :** Provides safe power isolation around moistureprone dialysis setups.

## OTHER SENSITIVE WARDS

- 🔧 Secures the environment in all critical zones needing continuous care and monitoring.
- 🔧 Product Highlight

## WE OFFER THE

- 🔧 Continuous Leakage Current Monitoring
- 🔧 Transformer-Based Electrical Isolation
- 🔧 Continuous Leakage Current Monitoring
- 🔧 Real-time monitoring with visual and audible alarms ensures patient safety by detecting insulation faults before they become hazardous.

## FAULT TRACKER

IP Panel can track leakage Current upto 14 mcb's

**TECHNICAL SPECIFICATION :**

MODEL	EPIP1010	EPIP1020	EPIP1030
Make	<b>E-POWER</b>	<b>E-POWER</b>	
Capacity	10/20/30 KVA	10/20/30 KVA	
Input Voltage	230 Volts (Phase to Neutral)	400 Volts (Phase to Phase)	
Output Voltage	230 Volts (Phase to Neutral)	400 Volts (Phase to Phase)	
Ratio	1:1	1:1	
Frequency	50 Hz	50Hz	
Wave Form Distortion	Nil	Nil	
Response Time	Instantaneous (mili sec)	Instantaneous (mili sec)	
Type	Indoor Type	Indoor Type	
Flash Strength	2.5 KV	2.5 KV	
Inter winding Capacitive	0.05 PF	0.05 PF	
Insulation	Greater than 500 M Ohms	Greater than 500 M Ohms	
Leakage Current	Less Than 20 $\mu$ A	Less Than 20 $\mu$ A	
CMNRR	100 db or more	100 db or more	
Duty Cycle	100% Continuous 24 Hrs.	100% Continuous 24 Hrs.	
Applicable Standard	IS 2026	IS 2026	
Operating Temp.	0°C - 45°C Above Ambient.	0°C - 45°C Above Ambient.	
Stamping Used (CORE)	Imported Low Losses CRGO Laminations - M4 Grade.	Imported Low Losses CRGO Laminations - M4 Grade.	
Earth Leakage Displaying	0-30 mA Index	0-30 mA Index	
Mounting	Floor/Wall Mounting		
Interface	Wi-Fi/RS232-485 Connectivity	Wi-Fi/RS232-485 Connectivity	
Indicator	Power-On, MCB Trip, MCB On	Power-on, MCB Trip, MCB on	
Temperature	50 <sup>0</sup> Tested on Room Temperature	50 <sup>0</sup> Tested on Room Temperature	
Earth Fault Indicator	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Earthing Controller	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Surge Suppress	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Output connecting MCCB/MCB	Provided as per requirement	Provided as per requirement	
<b>FAULT TRACKER</b>	<b>IP Panel can track leakage Current upto 14 mcb's</b>		

\*Specifications are subject to change without prior notice.

