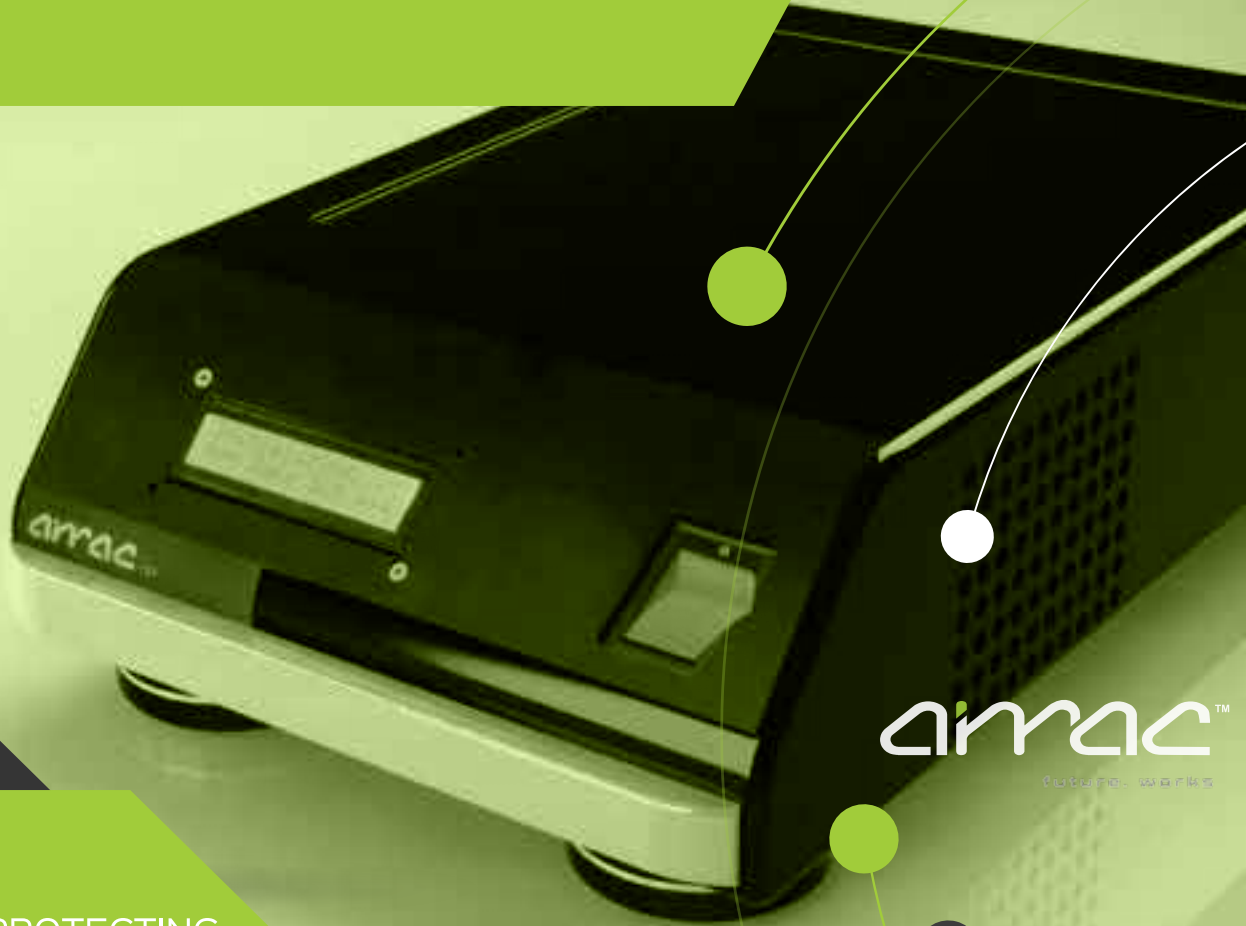
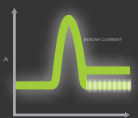


IMP 1K5M | 3K0M#

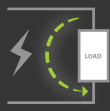


aimac™
medical works

AN INGENIOUS
POWER SYSTEM PROTECTING
YOUR MEDICAL EQUIPMENT FROM
FAULTY AND UN RELIABLE ELECTRIC
POWER ALSO PROVIDING **SAFE AND
STABLE POWER FOR LONG LIFE &
DURABILITY.**



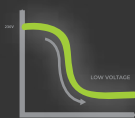
INRUSH CURRENT
CONTROL



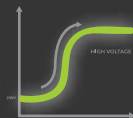
SHORT CIRCUIT
PROTECTION



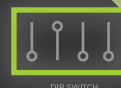
100% ISOLATED



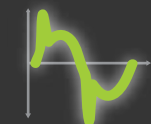
LOW VOLTAGE
PROTECTION



HIGH VOLTAGE
PROTECTION



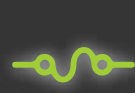
DIP SWITCH FOR OPERATING
VOLTAGE SELECTION



SURGE PROTECTION



ELIMINATE POWER
NOTCHES
& POWER DISTORTION



EXTERNAL
PROTECTION FUSE



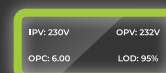
OVER LOAD AUDIO
INDICATION



AUTO SLEEP
& WAKE



FULLY
INTELLIGENT



DIGITAL DISPLAY
(WITH I/V & O/V INDICATION
LOAD CURRENT INDICATION
LOAD INDICATION IN %)

Output

- Outputs:
IEC Output x 6 (Loading Capacity @6A | 13A# Max.)
- Input: IEC x 1, 230V/6A with safety Fuse |
230V/13A with safety circuit Breaker #

Indicators & Controls

- LCD Display : Indication for IPV, OPV, Load Current,
Load in Percentage %
- Front Panel: On/Off
- Illuminated Logo Light

Electrical Specification

- Mains Voltage: 180V to 250V
- AC Power Consumption: 1536W Max | 3036W Max #
- Protections: Short Circuit and Over Voltage, Over
Load Protection with sound Indicator

Package Includes :

- IMP1K5M x 1 No | IMP3K0M# x 1 No, Power Cable 3M
230V/10A x1 No, IEC cable 1.5M 230V/10A x 6 Nos,
Warranty Card, User Manual.

Physical

- Dimension : 350x250x140mm |
380x270x130mm#
- Weight: 19 kg | 25 kg #
- Cooling System: Natural Cooling

Terms & Abbreviations :

- Depending on equipment Voltage requirement as
per the manufacturer standards.
- AIE - Aimac Innovatives & Engineering Pvt Ltd.,
- IPV - Input Voltage
- OPV - Output voltage

Input Voltage Range :

- Single Phase, 230V-50Hz
- Output Specification
- Intelligence : Refer overview & Features

Do You Know That the Power Line Disturbances will Create an Adverse Effect in the Quality and Life of Your Equipment?

Best performance of the highly sophisticated electronics in medical equipments depends upon a clean and stable supply of electrical power. These modern new electronics are integrated in every machine which are very sensitive, also they are all connected to a traditional electrical wiring system, line grid that was designed and engineered decades ago. To cater this need and ensure good power to equipments AIMAC introduces intelligent power management systems

IMP

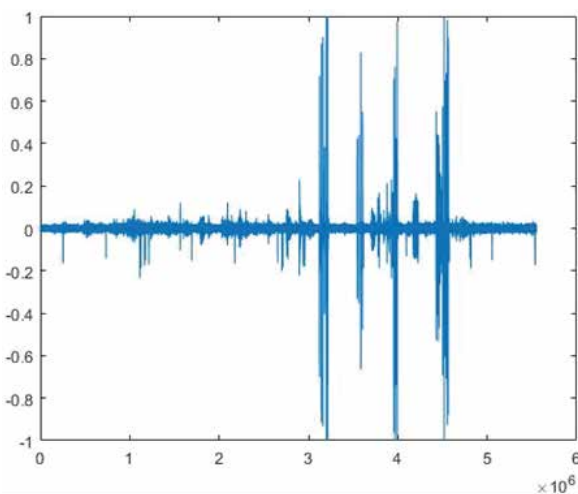
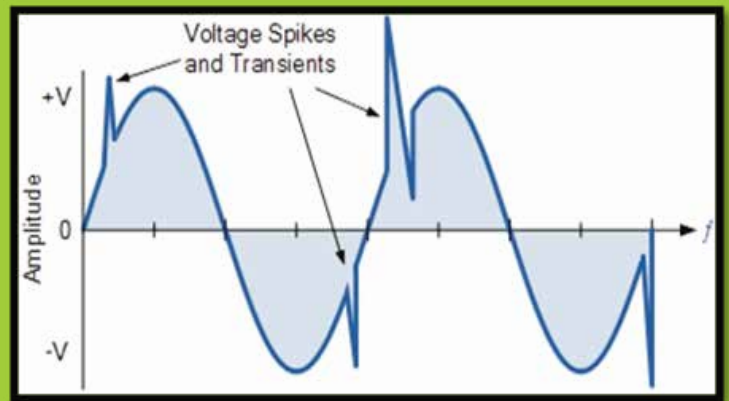
Why Do We Need for IMP?

The quality of the power delivered to the hospital is also very critical. This is because the medical equipment used have sensitive microprocessors and require high quality power. Power quality issues can result in the malfunction of the medical equipment such as display distortion, incorrect diagnostic results or control fault. It could also result in other severe situation in life line medical equipment might lead to loss-of-life. Power quality is the combination of voltage quality and current quality. Voltage disturbance is often from the power network which in turn affects the equipments. Hospital's power quality issues occurred often due to non- linear loads, injection of harmonics, and interaction between medical equipment. As power quality issues are cumulative, small events detected should be taken seriously. Non-linear loads distort the current waveform and create harmonic currents to the system current.

Technical Specification :

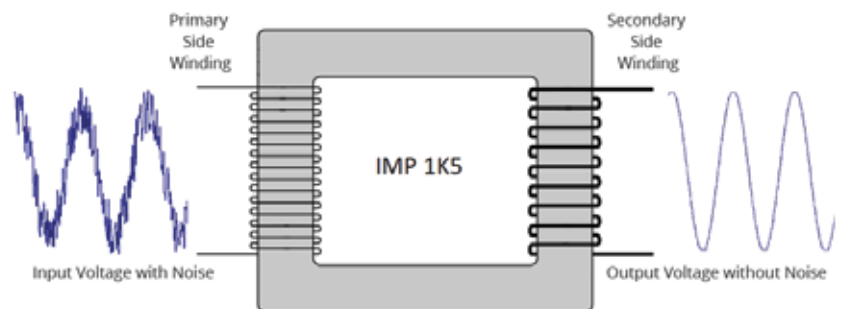
- Power Rating : 1.5 KVA @ 230V | 3 KVA @ 230V #
- Over Load Indicator @ 90% with single beep for 10s interval , 95 % with Long beep.
- Output short Circuit Protector with Indication Beep and in Display
- Over Voltage /Low Voltage Protection with Indication Beep and in Display.
- LCD Display for Load, IPV, OPV, Load Current , Load in Percentage

When it comes to very sensitive Medical Equipment and Medical System noise is the enemy. Power line noise can cause poor performance in diagnosing Equipments network and can even contribute to reliability and noise issues for electronic components that are used in Medical Products . Power taming products and noise filters are widely used to reduce noise that is present on the electrical lines and improve the quality of power that is being delivered to various electrical components. **IMP** is widely accepted within power engineering industry that providing a clean, stable power foundation for Medical Equipment and Medical System.



IMP transfer electrical power from a source of alternating current power to a device, where the powered device is isolated from the power source for safety measures. **IMP** power series products are designed specifically for use in sensitive systems. The purpose of using an **IMP** sensitive power application is to provide the best possible operating environment, free from noise and interference that ultimately strangles the dynamics and does not allow a system to reach its best performance. Medical systems will come alive with more dynamics, improved performance.

IMP with special insulation between the primary and secondary copper windings to isolate the transfer of electrical power. By isolating the transfer of electrical power from the main power source, **IMP** blocks electrical noise and interference that degrades performance **IMP** improves the overall system performance. It eliminate electrical noises caused by other medical equipments in the electrical networks



Application :

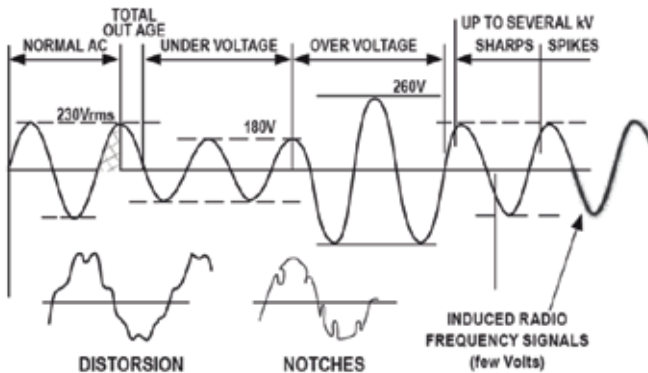
- ▶ Medical Laboratory
- ▶ Operation Theatre
- ▶ Sensitive Medical Equipments
- ▶ Any where for clean and stable Power Distribution

Features :

- ▶ 100% Completely Isolated power Output
- ▶ DIP Switch for specialized input Range selection
- ▶ Noise Free & Repel Free Outputs
- ▶ LCD Display for Load, IPV, OPV, Load Current , Load in Percentage %
- ▶ Extend the Load Capacity by Adding IMP as per the Application and need
- ▶ AIE Can be designed for your specific application

1. Clean Power Provides Precise Medical Functioning:

Modern day diagnostic treatment and life support medical equipments in healthcare needs consistent quality power to function with good efficiency. The power supply in the grids are unreliable and with frequent power quality disturbance this is due to electrical pollution from the source or due to transmission. Electrical pollutions in the medical facilities results in failure and incurs huge maintenance cost simultaneously increasing the operation cost of medical equipments. Common power quality disturbances include surges, spikes, swells, sags or brownouts, noise and outages. All of these power disturbances can cripple the equipment and place the care of the patients at risk.



2. Active and Pure Power for Good Performance :

Every electronic device emits electrical noise that can be picked up and transmitted through electrical circuits in your surroundings. All of this devices combine to create a noise floor within the electrical environment of your surroundings. However, it is not just your electronic devices and appliances that add to the noise floor, your electrical service is likely to be connected in parallel with many of your neighboring equipments, so you are subject to electrical noise that is present throughout your electrical system. There is an ever increasing problem of power line noise pollution that is present in virtually every source, and it is only getting worse.

3. Programmed Voltage Range Control Provides the Ultimate Protection and Reliability:

Voltage fluctuations stress electronic equipment and can easily cause sensitive equipment to operate unreliably or even fail. **IMP** eliminates these problems by providing pure, stable voltage to the connected equipment to ensure reliable operation. Units accept input voltage from 160V to 250V and transfers to the output. LCD displays shows input voltage, output voltage, current and load % in real-time as well as displaying fault reasons.



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