

ISO 9001 : 2015 Certified

OPTO Marketing Company Pvt. Ltd.

OFFERING SOLUTIONS FOR POWER PROBLEMS SINCE 1982

1 KVA to 1000 KVA

Own Manufactured Products :



“MICRO CONTROLLER BASED PANEL”



DESCRIPTION :

Voltage is generally low during daytime and high during night hours. This results in the following among many other disadvantages:

- Motors draw high current at high or low voltage causing burnouts.
- At higher voltage power consumption of electrical equipments increases reducing life and efficiency.
- CNC or other Automated machines produce defective parts and hence affect production efficiency.
- Nuisance tripping of relays and contactors takes place.

Opto Servo Voltage Stabilizers are used to get stable output voltage irrespective of the supply voltage fluctuations. The Stabilizer utilizes motor driven variable auto transformer and buck boost transformer that are connected between the incoming power supply and load to produce a fixed output voltage.

FEATURES:

- Waveform distortion- Nil.
- High speed of voltage correction.
- Minimum Power loss.
- Protections - over voltage / under voltage / overload - (optional)
- Operation - Auto or Manual
- LED Indications for Input Voltage High / Low.
- Metering - Analogue or Digital.



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FEATURES OF THE MICRO-CONTROLLER BASED SYSTEM:

- Output Voltage Regulation can be digitally adjusted (1V to 20V phase to neutral individually in each phase).
- The under voltage cut out can be adjusted to 170V to 219V phase to neutral.
- The over voltage cut out can be adjusted to 241V to 285V phase to neutral.
- The time lapse before any of the above trips occur can be adjusted from 1 sec. to 999 secs. (OFFTRIP).
- The time interval for the supply to be restored after the faults are corrected can be adjusted from 1 sec. To 999 secs. (ON-TRIP).
- The overload tripping current can be adjusted.
- Alarm lamps which light up when the input voltage goes above or below the maximum or minimum specified Input Voltage.
- Voltmeter, to indicate either input or output voltage.
- Digital adjustment to set the output voltage to the exact specified level.
- Auto - Manual' selector switch to select the mode of working of the Stabilizer. In the event of failure of Automatic control, the unit can be used under Manual control.
- Push Button Switches marked "Raise" & "Lower" to increase or decrease the output voltage when unit is under manual control.
- Easily replaceable and serviceable printed circuit cards. (PCB)

Following deviation from standard types of Stabilizers is possible, subject to confirmation:

Non-standard input voltage range, output voltage and KVA rating.

ELECTRICAL SPECIFICATIONS:

- TYPE : Indoor or Outdoor, Floor Mounting.
- COOLING : Air-Cooled / Oil-Cooled.
- INPUT VOLTAGE : As per customer requirements.
- OUTPUT : 220V / 230V / 240V \pm 1%, 1 Phase AC.
380V / 400V / 415V \pm 1%, 3 Phase AC.

Regulation maintained for both unbalanced voltages and loads. The output voltages for all the three phases are sensed individually & corrected for individual phases.

- CAPACITY : 1KVA - 1000KVA
- FREQUENCY : 45Hz - 55Hz
- INSULATION RESISTANCE : above 5M ohms at 500V DC
- DIELECTRIC TEST : 2.5KV RMS for 1 minute for Transformers & 1.5KVA for 1 minute for the entire system.
- OPERATING TEMP. : 0°C to 55°C
- HUMIDITY : up to 95% RH
- CONFORMS TO : I.S. 9815 - 1981

NOTES:

- Available in various capacities and Input / Output Voltage Ranges as per requirement.
- For 3 Phase unbalanced supply system, 3 individual & independent sensing, one for each of the 3 Phases, are employed.
- Transformer oil supplied is IS - 335 marked.
- Automatic Alarm/Power cut-off in case of over voltage, overload & phase failure, if required.

APPLICATIONS:

- CNC machines ➤ Process control systems ➤ Industrial equipment ➤ Motors ➤ Medical instruments ➤ Scientific instruments
- Offset printing machine ➤ Cold storage ➤ Petrol pump ➤ Air compressors ➤ Textile machines ➤ Lightings ➤ Engineering units
- Pump sets & many other similar applications.

