



ALWAYS
ACCURATE



Powering Excellence:
Your Trusted Partner in Precision
 Voltage Control with Our
 State-of-the-Art Servo Stabilizers.

Product Description:

Experience uninterrupted power precision with our Servo Stabilizers – the pinnacle of voltage control. Crafted for reliability, these stabilizers ensure a consistent power supply, shielding your electronics from voltage fluctuations. Our advanced technology guarantees seamless performance, making them indispensable for industries, businesses, and homes.

About Us:

Perfect Hertz is a name synonymous with power. Perfect Group started its operation in 1992, founded by Ahuja Family in Ghaziabad with a small business and now working as one of the biggest OEMs of Mahindra & Mahindra Ltd across India. Perfect Group has achieved tremendous growth in the previous 10 years in the industry and it will continue to do so. With more than 30,000 happy and satisfied customers, Perfect Group is committed towards investing in technology, automation & services to deliver the best to its customers.

Our Goals:

- Reliability First** : Perfect Hertz aims to provide stabilizers that you can rely on, ensuring the stability and safety of your electrical systems.
- Precision Voltage Control** : Our goal is to deliver products that excel in precision voltage control, meeting the highest industry standards.
- Innovation Leadership** : Striving to be at the forefront of innovation in voltage control technology, Perfect Hertz is committed to developing cutting-edge solutions for evolving industry needs.
- Environmental Responsibility** : We are dedicated to incorporating eco-friendly features in our products, promoting energy efficiency, and contributing to a greener, sustainable future.

Why Choose Perfect Hertz

- State-of-the-Art Technology** : Our stabilizers incorporate the latest technological advancements for unparalleled performance.
- Trusted Partner** : Count on Perfect Hertz as your trusted partner for precision voltage control, backed by years of expertise in the power segment and a commitment to excellence.
- Industry Recognition** : Our products have gained recognition in various segments like Infra, Hospitality, Corporates, Dairy, Lifestyle, Healthcare.

IoT (Internet of Things) Features (Optional):

Our advanced servo stabilizers are now IoT-enabled, providing smart features that enhance performance and security:

- Theft Protection** : Get instant alerts if your stabilizer is moved, thanks to geo-location tracking. This ensures optimal security against theft.
- Data Monitoring** : Track real-time data like kWh, voltage, frequency, peak timings, and load per phase, all stored securely in the cloud for easy access and analysis.
- Efficiency Calculation** : Evaluate your stabilizer's efficiency with detailed analytics on energy consumption, helping you optimize performance and reduce costs.



Advanced Protection Features (Optional):

Our servo stabilizers are equipped with comprehensive safety mechanisms to ensure reliable operation and protection under all conditions:

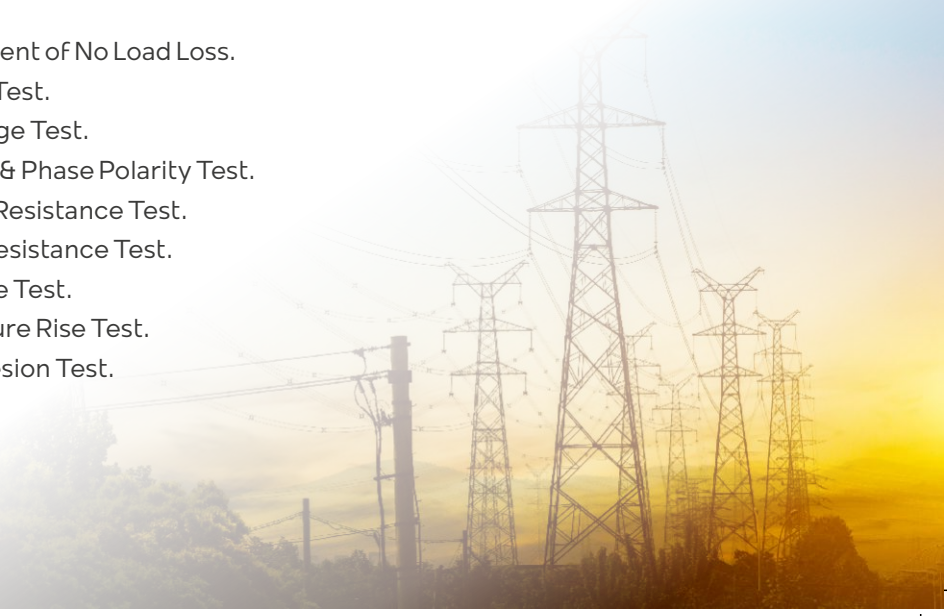
High Voltage Cut-Off	: Automatically disconnects power when high voltage is detected, protecting your equipment from potential damage.
Over Voltage Cut-Off	: Ensures your system is safe by cutting off power in the event of excessive voltage levels.
Single Phase Preventer	: Prevents damage caused by single-phase conditions, ensuring continuous and balanced power supply.
Low Voltage Cut-Off	: Disconnects power during low voltage scenarios to safeguard sensitive electronics and reduce the risk of malfunction.
Earth Fault Protection	: Detects earth faults and interrupts the power supply to prevent electrical shocks and fire hazards.
Surge and Spike Protection	: Shields against transient voltage and spikes, preserving the lifespan and functionality of your electrical devices.
Changeover with Bypass Provision	: Facilitates seamless power supply switching between sources, including a manual bypass option for maintenance or emergencies.
Phase Reversal Cut-Off	: Automatically cuts power in the event of phase reversal, protecting motors and other equipment from reverse operation.

Applications:

Industrial	: Ideal for powering machinery and equipment in manufacturing, production, and processing plants.
Commercial	: Ensuring a stable power supply for businesses, offices, and retail establishments.
Residential	: Safeguarding your home electronics and appliances from voltage fluctuations.
Testing Quality & Control	: Every stabilizer undergoes a comprehensive series of tests throughout the manufacturing process, starting from the raw material stage, guided by our well-laid quality assurance plan (QAP). All routine tests are conducted in our in-house laboratory, developed with an integrated testing panel featuring the following testing facilities:



- Measurement of No Load Loss.
- Load Loss Test.
- High Voltage Test.
- Turn Ratio & Phase Polarity Test.
- Insulation Resistance Test.
- Winding Resistance Test.
- Oil Leakage Test.
- Temperature Rise Test.
- Paint Adhesion Test.





TECHNICAL SPECIFICATIONS

ITEM	PERFECT HERTZ VOLTAGE STABILIZER
Capacity	10 KVA to 2000 KVA
Cooling	Air and Oil Cooled in two separate modules
Type	Indoor Floor Mounting (Balanced/Unbalanced)
Input Voltage Range	<ul style="list-style-type: none"> • 300-460 v/320-460 v/340-460v/360-460 V in 3-phase, 4 wires AC system • 170-270 VAC/140-270 VAC, Single Phase or any voltage range as per requirement for both single and Three Phase
Output voltage	<ul style="list-style-type: none"> • 380 VAC/400 VAC/ 415 VAC $\pm 1\%$ 3 phase, 50 Hz • 220 VAC/230 VAC 1%, Single Phase or any voltage as per requirement for both Single and Three Phase
Output Voltage Adjustment	$\pm 5\%$
Frequency Range of Operation	47-53 Hr
Correction Speed	35 volts/sec
Control Circuit	Solid-state electronic plug-in PCB circuits
Efficiency	<ul style="list-style-type: none"> • Above 98% at full load • Above 95% at full load
Adjustment	Output voltage level and correction sensitivity to be adjustable
No load loss at minimum rated input voltage	Less than 3% of the rated capacity
No load loss at minimum rated input voltage	Less than 3% of the rated capacity
Full load loss at inimum rate input voltage	Less than 5% of the rated capacity
Full load loss at minium rate input voltage	Less than 5% of the rated capacity
Maximum load loss at maximum rate input voltage	At minium input
Duty Cycle	Continuous
Short Time Overload Capacity	Not less than 110% for 5 minutes
Alarms and Tripping*	<ul style="list-style-type: none"> • Output voltage HL/LOW alarm and tripping though to be adjustable • Input single phasing alarm and tripping though input MCCB • Input phase reversal alarm and tripping through input MCCB • Over temperature sensing and alarm
Metering	<ul style="list-style-type: none"> • Input voltmeter with selector switch (Ph- Ph2 Ph-N) • Output voltmeter with selector switch (Ph- Ph2 & Ph-N) • Ammeter for R, Y, B input currents with selector switch • Oil temperature by digital meter
Indications (using LED type lamps)	<ul style="list-style-type: none"> • Input ON (after MCCB) on lamp • Output R, Y, B separate lamps (after MCCB) • Input phase reversal • Input single phasing • Unit over tmperature • Input MCCB Trip
Protection*	<ul style="list-style-type: none"> • Input MCCB for OL & SC Protection • Output MCCB for OL & SC Protection • Input phase reversal
Bypass Arrangements*	Suitable bypass arrangement for bypassing the input supply to output and isolating the Servo Stabilizer for maintenance/ repair.
Power Circuit Diagram on Panel (Mimic Panel)*	Power and control circuit diagram with above indication to be scree printed (Mimic panel) on the front panel of the Perfect Hertz Stabilizer
Operating Temperature	Up to 50°C
Operating Humidity	Up to 95% RH
Confirming to	IS:9815 (Pt.1)/1994 (Reaffirmed 2004) with latest ammendments
Oil	Transformer grade oil conforming to IS:335/IEC 296
General	Painting using 11 tank process system, Earthing bolts, lifting hooks
Optional	

*In the interest of continuous product improvement, all specifications are subject to change without notice.





LT PANELS

**"Powering Progress, Engineering Excellence:
Unleash Efficiency with Our LT Panels"**

LT PANELS-LT Panel is an electrical distribution board that receives power from generator or transformer and distributes the same to various electronic devices and distribution board. Our LT panels are designed to work with low electricity consumption that makes them cost effective.

OUR PRODUCT RANGE (LT PANELS)

- | | |
|---|---------------------------------|
| • Outdoor Panel | • PLC Control Panel |
| • Instrumentation Panel | • Capacitor Panel |
| • Main LT Panel | • Feeder Pillar |
| • PCC (power Control Centre) | • Meter Board |
| • Auto/manual Synchronizing/ Load Sharing Panel | • Main Distribution Board (MDB) |
| • AMF Panels | • Bus Duct & Rising Mains |
| • MCC (Motor Control Panel) | • Special Purpose Machine Panel |
| • Control Desk & Mimic Panels | • VFD Panel |
| • Effluent Treatment Plant Panel | • Soft Starter Panel |
| • Sewage Treatment Plant Panel | • Fire Fighting Panel |
| • Water Treatment Plant Panel | |

LT PANEL SWITCH BOARDS (SALIENT FEATURES)

- CNC Fabricated fully bolted standardize designs
- Computer Aided Design (CAD) systems
- Panel enclosure degree of protection IP-54, IP-55, & IP-65
- Anti corrosion treatment
- All live parts are shrouded with polycarbonate
- Powder Coating Treatment Plant with 11 tank process
- Painting in dust & vermin proof booths & ovens
- Non hygroscopic SMC bus bar supports for best mechanical & electrical strengths for fault current withstand
- Bus bar and interlinks are insulated with heat shrinkable PVC sleeves provision for future expansion for both sides.

LT PANELS



Instrumental Panel Fire Fighting Panel



Outdoor Panel Plc Based Panel



Soft Starter Panel APFC Panel



AC/DC Drive Panel MCC Panel



Power Distribution Panel Main LT Panel/PCC

OUR MANUFACTURING FACILITIES



2. QUALITY INSPECTION AND TESTING PROCEDURES:

- Micrometer for precise measurement of small dimensions.
- Vernier caliper for accurate measurement of length, width, and depth.
- Measuring tape for larger dimensions and lengths, ensuring precision.
- DFT (Dry Film Thickness) meter to measure the thickness of powder coatings accurately.
- Scratch tests to evaluate the adhesion and durability of surface coatings.
- Di-penetration tests to detect surface defects and evaluate material integrity.
- Impact tests to assess powder coating under stress.
- Salt spray tests to specialized facilities to evaluate corrosion resistance - Outsource
- Customer focused and continual improvement as a context of an organisation - Kaizen

3. COMPLIANCE WITH ISO 9001-2015 STANDARDS:

- Adhere to ISO 9001-2015 standards in all stages of sheet metal fabrication.
- Ensure quality control measures are in place throughout the production process.
- Regularly review and update quality management systems to meet ISO standards.



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