

Manufactured by:


ORION *Plus*

Independent Phase Voltage Controlled Stabilizer 150kVA to 1000kVA



ORION PLUS models are ORTEA's most recent response to the increasing demand of three-phase voltage stabilisers belonging to the intermediate power range.

They are built in modular cabinets which are suitable for any industrial environment and are able to tolerate all the mechanical stresses that may occur during transport and those generated by plants all over the world.

The ORION PLUS three-phase stabiliser covers the power rating range between 105kVA and 1000kVA and allows for the choice of several input voltage variation percentages within a broad range (from +30% up to -45%). For $\pm 10\%$; $\pm 15\%$; $\pm 20\%$ and $\pm 25\%$; $\pm 30\%$ range, the change of stabilisation is obtained through different internal connections.

The ORION PLUS voltage stabilisers are supplied with independent regulation on each phase and are regulated by toroidal or

columnar voltage regulators (depending on the machine rated power). This type of stabiliser is used when the main is unbalanced and when unbalanced three-phase loads and/or singlephase loads need to be supplied. In this situation **the presence of the neutral wire is required** (Internal zigzag reactor is included for areas with Delta input). The admissible load unbalance is up to 100% of rated current.

The stabilisers are air cooled (natural convection with cabinet internal temperature lower than 45°C).

The measuring instrumentation for the ORION PLUS stabilisers is incorporated in a control panel on the cabinet door and consists of **two multi-task digital network analysers**. Such instruments are able to provide with information regarding the status of the lines upstream and downstream the voltage stabiliser such as phase and linked voltages, current, power factor, active power, apparent power, reactive power, etc.

pazifik
power

www.ppi.ph

The operating status of the stabiliser can be easily monitored by means of a LED interface placed on the front panel, which displays all the information regarding the operating of the three phases and the possible alarms. LED lights signal 'power on', reaching of voltage regulation limits and direction of voltage regulation (increase/decrease). Alarms for minimum and maximum voltages, maximum current, overtemperature and ventilation failure are also indicated. The alarm indicators are accompanied by an acoustic alarm. All these signals are located on the control panel mounted on the cabinet door.

Automatic circuit breakers are provided on the regulation circuit to protect against overload and short circuit on the voltage regulator. The auxiliary circuit is protected by fuses.

The logic control, performed on the true rms voltage, is based on the 2-way DSP microprocessor. By means of fine settings and specific configurations, this control system can be set by using a personal computer: this characteristic allows to solve any problem of voltage stability in any industrial plant.

All ORION PLUS stabilisers are provided with SPD surge arrestors Cl. II.



Technical Specification	ORION PLUS
Available Input Voltage	230,400,460,480 3-phase, delta or wye connection
Input Voltage Tolerance	$\pm 10\%$, $\pm 15\%$, $\pm 20\%$, $\pm 25\%$, $\pm 30\%$, -35/+15% -45/+15%
Frequency	60 Hz $\pm 5\%$
Admitted Load Variation Admitted Load Unbalanced	from 0 to 100% 100%
Cooling	Natural Air (aided over 45°C)
Ambient Temperature	-25/+45°C
Storage Temperature	-25/+60°C
Relative Humidity	95%
Admitted Overload	200% 2min
Colour	RAL 7035
Protection	IP 21
Installation	Indoor



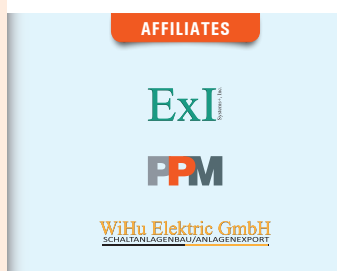
4/F South Park Plaza, Santiago Street
Paseo de Magallanes Commercial Center
Makati City, 1232 Philippines

#8 Lapu-Lapu St., Magallanes Village
Makati City, 1232 Philippines

Tel. : +63 2 8675619, 8675620, 5118888

Fax : +63 2 8364323

E-mail : info@ppi.ph



www.ppi.ph/dfiles/orion+.pdf