

## POWER SOURCE SET 800 kW

The 800kW Power Source Set, comprised of four power supply unit containers and one switch plant container, represents an independent electric power source which enables to supply three-phase and single-phase consumers in the voltage system 3x400/230V, 50 Hz.

The power supply units work into the "common bus bar" in the switch plant to which they are connected automatically or manually depending on the current power consumption demand and in relation to a uniform loading of the set according to the number of operating hours. The total power can then be taken off via a set of sockets in the switch plant which are divided to four sections according to the importance of supply of the connected consumption. These sections are disconnected automatically by their priority if the current required power of the running power supply units is not sufficient.



### BASIC PARAMETERS of the power supply unit container

Power	250 kVA / 200 kW
Voltage system	Three-phase
Voltage	3x400 / 230V
Set	Olympian GEH275
Motor	Water-cooled, diesel
Starting	Electrical 24 V
Consumption	53 l/h at 100% load
Generator	Synchronous, class H insulation
Operation time	20 h at 100% load
Noise level	75 dB / 7m
Mass	7 900 kg
Degree of protection	IP 23

### BASIC PARAMETERS of the switch plant container

Power	1000 kVA / 800 kW
Voltage system	Three-phase
Voltage	3x400 / 230V
Auxiliary voltage	24 V
Operation type	Continuous
Electrical system	IT
Mass	max. 8 000 kg
Degree of protection	IP 23

### OPERATING CONDITIONS

Ambient temperature	-30°C to +50°C
Relative humidity	90%
Maximum tilt	3°
Altitude	1000 m above sea level
Air flow rate	up to 20 m.s <sup>-1</sup>

The switch plant is equipped with an operator air-conditioned, ventilated station where the industrial PC with monitor is used to monitor all operating, control and informative data on the condition of individual components of the power source set (*the amount of generated or consumed power, power division in individual sections, phase loading, running time, the set's condition, the amount of fuel in tanks, fault states, etc.*).

The power source set's control system enables selecting manual and automatic operation modes.

The containers are of the ISO 1C type, with the ability to be stacked 1+3 and to be transported with a vehicle equipped with an H-frame.

If necessary, the power source set can be additionally equipped with a container with UPS which enables the continuous supply of a particular group of sockets. Another option is to extend the power source set with additional power supply unit containers to increase the total power up to 1.2 MW.



## PRACTICAL APPLICATION

Power source sets provide power supply to extensive military units in the international missions of NATO and EU forces and in UN peace operations.

