

CONTAINERS FOR INTIS ENGINEERING

year 2019/05

POWER SUPPLY SYSTEM FOR THE PLANT

MEP company employees designed, delivered, and commissioned a decentralized power supply system consisting of 230VAC, 130VDC, 48VDC, and 24VDC UPS devices and produced a power supply system for the client INTIS Engineering.

The project was carried out for a plant in Algeria.

POWER SUPPLY SYSTEMS FOR PLANT ALEGRIA

For the client INTIS Engineering, we delivered and commissioned a decentralized power supply system consisting of UPS devices with 230VAC, 130VDC, 48VDC, and 24VDC power. The power supply system was provided to ensure stable and uninterrupted power supply to the process computers and PLC equipment in the production management system of the plant in Algeria.

Brief description of INTIS ENGINEERING:

INTIS ENGINEERING is consistently present on various continents, focusing on the application of modern technologies and the development of their own products.

Numerous references worldwide in the field of industrial automation projects and major investments in the metal industry, mines, automotive industry, pharmaceutical industry, and oil and gas industry are the result of our long-standing successful work.

PROJECT TASK

The customer demanded a high-quality and robust solution for uninterrupted power supply that would be redundant, available, and easy to maintain. Part of the equipment needed to be housed in special containers designed for high load-bearing capacity and overseas transport.

Solution

MEP company employees designed, manufactured, delivered, and commissioned a decentralized power supply system with UPS devices of different voltage levels (230VAC, 130VDC, 48VDC, and 24VDC).

Due to the exceptional length of the production line (150m), the control system was divided into five sections, corresponding to the number of controllers.

Each section consists of two UPS devices with a power of 60 kVA in parallel redundant operation, and a direct current system of 6 kW 24VDC, while three sections are additionally equipped with a 130VDC direct current system, and two sections with a 48VDC system.

Robust solution for powering equipment in harsh conditions!

BATTERY SYSTEM

Each UPS device is equipped with a battery system for 6 hours of autonomy at full load (AC and DC load).



Battery system



MPS1500W 48VDC hybrid

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Each battery set is equipped with a power transfer system between individual UPS units within the same pair (in case of failure of one UPS unit, the corresponding battery automatically switches to the remaining functional UPS unit).

For the installation of two out of the mentioned 5 systems, special containers were supplied for placement within the plant facility, specifically designed for high load-bearing capacity and overseas transportation.

OTHER

The delivered UPS devices are from the Galaxy 5500 series, manufactured by SCHNEIDER ELECTRIC, and intended for Marine and Industrial environments. They are designed with IP23 protection and additionally equipped with anti-vibration elements.

The rectifier systems are from the FLATPACK series, manufactured by ELTEK.

Before delivery, all systems were configured and tested in the production facility of MEP company.

