

INTEGRATED POWER SUPPLY SYSTEM “INDOOR” VERSION

CODE 11743



COMMUNICATION

- Dry contact digital inputs and outputs (alarms)

- Local and remote monitoring and management via Ethernet connection



ADDITIONAL FEATURES

- **Ecomode Function:** Automatic management of the number of rectifiers in service based on the applied load.

- **Scheduled Shutdown:** Programmable shutdown of rectifiers during peak electricity prices, using energy stored in batteries.



THE PRODUCT

The **Integrated Power Supply (IPS) System "Indoor" version** (our code 11743) has been designed, developed, manufactured and it is intended for powering multi-operator Radio Base Stations and dedicated coverage Distributed Antenna System (DAS).

The IPS is therefore sized to meet both DC and AC power requirements typical of a Radio Base Station of other operators possibly hosted at the same site.

The mechanical characteristics and degree of protection of in the "Indoor" version make it precisely suitable for operating indoors (inside buildings or outdoor shelters).

The Control and Supervision Unit is able to manage the following communication protocols: Web Server, NTP client, SSH server, SNMP server, SFTP server and Slave Modbus TCP.

IPS System composition

The IPS System consists of an indoor cabinet that in basic configuration includes:

- Batteries;
- No. 2 different PDUs/DC load distribution lines downstream of an LVD (one for each of the two major mobile operators).

If necessary, the same is prepared for the possible installation of additional:

- No. 2 different and additional PDUs/lines dedicated to other major operators;
- No. 1 additional PDU for DAS or other minor operators.

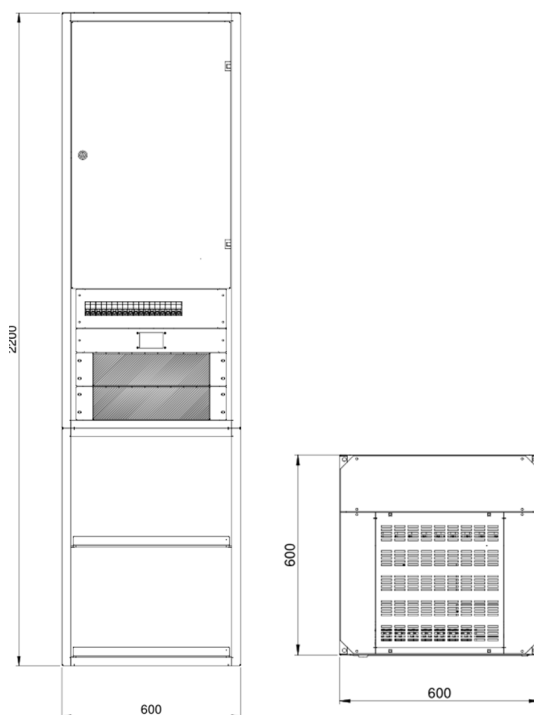
Thus, the IPS System consists of the following electrical subsystems:

- AC protection and distribution circuits;
- DC protection and distribution circuits;
- Up to No. 18 AC/DC conversion modules;
- Control and Supervision Units (PLCs) and their interface boards;
- Thermal probes.

High Efficiency Rectifiers: AC/DC conversion modules provide up to 97,2 percent efficiency, and those equipped can vary in number depending on the required load configuration to a maximum of No. 18.

THE BATTERIES

The IPS's cabinet is designed to house two to four 48V/100Ah or 48V/150Ah Lithium Iron Phosphate (LiFePO4) batteries. Upon request, it is possible to alternatively house up to two strings of 48V/150Ah AGM batteries, each consisting of four 12V monoblocks in series, with front connections. Additionally, a battery expansion rack is available (can be ordered separately) consisting of a 600x600x800 mm (WxDxH) cabinet, similar to the one that forms the lower section of the main cabinet of the IPS system cabinet.



SCALABILITY

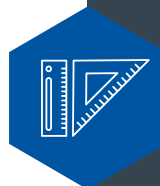
The Integrated Power Supply System presents various scalability possibilities both in terms of the amount of AC/DC conversion modules that can be equipped and that of PDUs/distribution lines, and in terms of the configuration of storage batteries that can be installed.



DIMENSIONS

The overall dimensions are:

- Height: 2200 mm;
- Width: 600 mm;
- Depth: 600 mm



CONTATTI

+39 0523 50161 

Via Andrea Noale, 351, 00155 Roma 

www.dplatforms.it 

info@dplatforms.it 

INTEGRATED POWER SUPPLY SYSTEM “OUTDOOR” VERSION

CODE 11745



COMMUNICATION

- Dry contact digital inputs and outputs (alarms)

- Local and remote monitoring and management via Ethernet connection



ADDITIONAL FEATURES

- **Ecomode Function:** Automatic management of the number of rectifiers in service based on the applied load.

- **Scheduled Shutdown:** Programmable shutdown of rectifiers during peak electricity prices, using energy stored in batteries.



THE PRODUCT

The **Integrated Power Supply (IPS) System "Outdoor" version** (our code 11745) has been designed, developed, manufactured and it is intended for powering multi-operator Radio Base Stations and dedicated coverage Distributed Antenna System (DAS).

The IPS is therefore sized to meet both DC and AC power requirements typical of a Radio Base Station of other operators possibly hosted at the same site.

The mechanical characteristics and degree of protection of in the "Outdoor" version make it precisely suitable for operating exclusively outdoors.

The Control and Supervision Unit is able to manage the following communication protocols: Web Server, NTP client, SSH server, SNMP server, SFTP server and Slave Modbus TCP.

IPS System composition

The IPS System consists of an external cabinet that in basic configuration includes:

- Batteries;
- No. 2 different PDUs/DC load distribution lines downstream of an LVD (one for each of the two major mobile operators).

If necessary, the same is prepared for the possible installation of additional:

- No. 1 additional PDU for DAS or other minor operators.

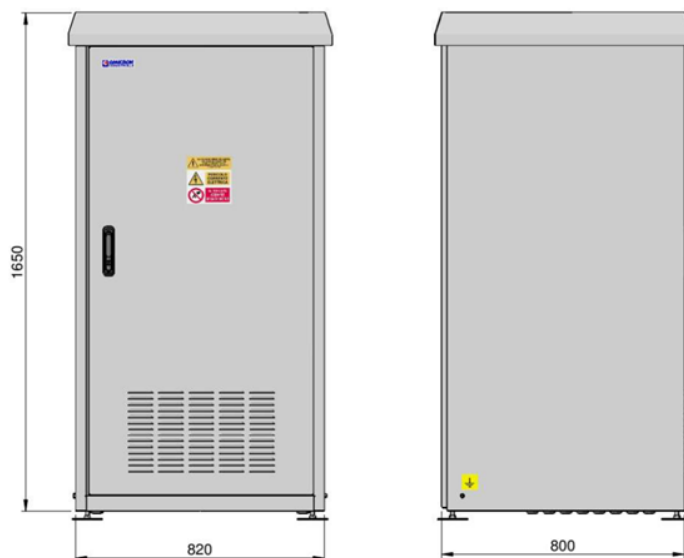
Thus, the IPS System consists of the following electrical subsystems:

- AC protection and distribution circuits;
- DC protection and distribution circuits;
- Up to No. 12 AC/DC conversion modules;
- Control and Supervision Units (PLCs) and their interface boards;
- Thermal probes;
- Service light;
- Optical smoke detector;
- Forced ventilation system.

High Efficiency Rectifiers: AC/DC conversion modules provide up to 97,2 percent efficiency, and those equipped can vary in number depending on the required load configuration to a maximum of No. 12.

THE BATTERIES

IPS's cabinet is designed to house two to four 48V/100Ah or 48V/150Ah Lithium Iron Phosphate (LiFePO4) batteries. Upon request, it is possible to alternatively house up to two strings of 48V/150Ah AGM batteries, each consisting of four 12V monoblocks in series, with front connections.



SCALABILITY

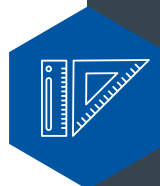
The Integrated Power Supply System presents various scalability possibilities both in terms of the amount of AC/DC conversion modules that can be equipped and that of PDUs/distribution lines, and in terms of the configuration of storage batteries that can be installed.



DIMENSIONS

The overall dimensions are:

- Height: 1650 mm;
- Width: 820 mm;
- Depth: 800 mm



CONTATTI

+39 0523 50161 

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info@dplatforms.it 