



Integrated Power Station "Indoor"

CODE
11743

PRODUCT
SPECIFICATION



The Integrated Power Station (IPS) "Indoor" Version Code 11743 has been designed, developed and manufactured in accordance with INWIT Technical Specification "TG-IE ST SDE 003 ver.1" dated 14/01/2021 and is intended for powering multi-operator Radio Base Stations and Dedicated Rooftop Installations (DAS). The IPS is therefore sized to meet both DC and AC power requirements typical of a Radio Base Station of INWIT's mobile network and 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 exclusively indoors.

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

- Battery;
- 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 SEI 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.

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





IPS's cabinet is prepared to house two to four 48V/100Ah or 48V/150Ah Lithium Iron Phosphate (LiFePO4) batteries. Up to two strings of 48V/150Ah AGM batteries, each consisting of No. 4 12V monoblocks in series, with front connections, can be alternately housed upon request. In addition, a battery expansion rack is available (can be ordered separately) consisting of a cabinet with dimensions 600x600x800 mm (LxWxH) similar to the one that forms the lower section of the SEI.

Thus, the Power Station 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.

The overall dimensions are:

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





Integrated Power Station "Indoor"



CODE
11745

PRODUCT
SPECIFICATION

POWER STATIONS FOR TLC OPERATORS

The Integrated Power Station (IPS) "Outdoor" Version Code 11745 has been designed, developed and manufactured in accordance with INWIT Technical Specification "TG-IE ST SDE 003 ver.1" dated 14/01/2021 and is intended for powering multi-operator Radio Base Stations and Dedicated Rooftop Installations (DAS).

The IPS is therefore sized to meet both DC and AC power requirements typical of a Radio Base Station of INWIT's mobile network and 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 device consists of an external cabinet that in basic configuration includes:

- Battery;
- 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 SEI 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 probe;
- Service light;
- Optical smoke detector;
- Forced ventilation system.

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





IPS's cabinet is prepared to house two to four 48V/100Ah or 48V/150Ah Lithium Iron Phosphate (LiFePO4) batteries. Up to two strings of 48V/150Ah AGM batteries, each consisting of No. 4 12V monoblocks in series, with front connections, can be alternately housed upon request.

Thus, the Power Station 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.

The overall dimensions are:

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

