DigitalPlatforms
Your Digital Transformation Partner

POWER SUPPLY STATION GSTZ101

CODE 11748 ÷ 11754

REGULATORY FRAMEWORK

EMC Directive 2014/30/UE

- EN 55011:2016 + A1:2017 + A11:2020
- EN 61000-6-4:2007/A1:2011+ EN 61000-6-4:2019
- EN 61000-6-5:2015/AC:2018-01

LV Directive 2014/35/UE

- EN 62368- 1:2014/AC:2015
- EN 60204- 1:2018

THE PRODUCT

The product "**GSTZ101**" (our code 11748÷11754) represents a series of Power Supply Stations (PSS) developed according to the requirements of the **ENEL Global Standard Technical Specification GSTZ101 Rev. 02** dated 06/05/2020.

This Technical Specification defines in a standard and general way the technical, functional and construction characteristics of different types of PSS GSTZ101 classified according to the target electrical system of the device. More specifically, based on the voltage and frequency levels of the power supply, the different configurations of the Power Supply Station can be articulated into the various types, as shown in the table below, in which the operating voltage levels of the Power Supply Station are also expressed.

Type	AC Voltage	Frequency	DC Voltage
GSTZ101-A1	400/230 Vac ± 20%	50 Hz ± 5%	24 Vdc ± 20%
GSTZ101-A2			
GSTZ101-A3			
GSTZ101-B1	380/220 Vac ± 20%		
GSTZ101-C1	380/220 Vac ± 20%	60 Hz ± 5%	
GSTZ101-C2	220/127 Vac ± 20%		
GSTZ101-C3	208/120 Vac ± 20%		

System composition

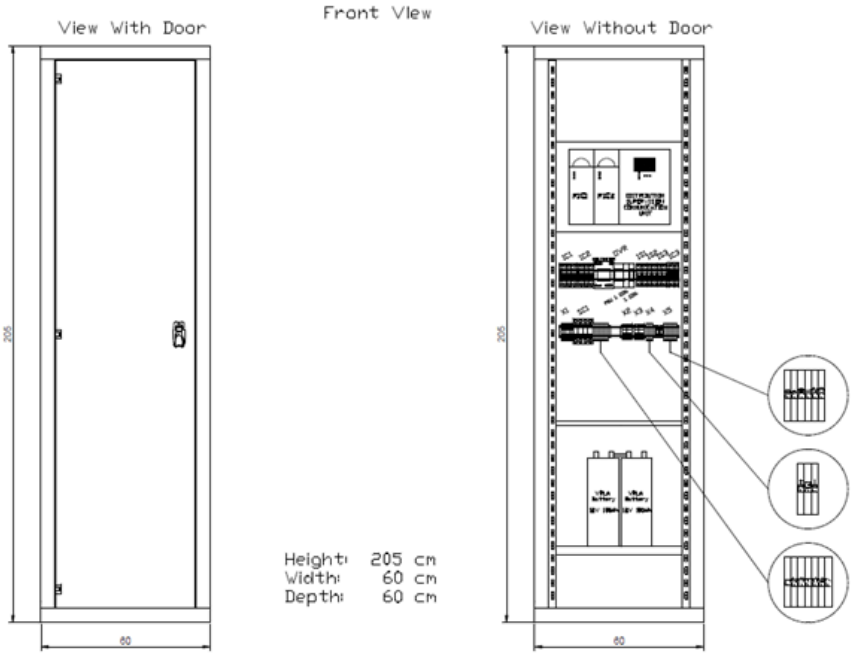
The PSS is designed to manage the charging and discharging of VRLA AGM, VRLA GEL or FLOODED (free electrolyte) lead-acid batteries.

The Power Supply Station, consisting of a single cabinet is composed of the following subsystems:

- Subrack with AC/DC conversion modules;
- Drawer with Controland Supervision Unit;
- Bar (DIN) housing the AC and DC circuit breakers, disconnectors, and protection/monitoring devices;
- Bar (DIN) with housing for input/output terminal blocks, fuse holder terminal blocks and surge protective device (SPD);
- Room temperature detection probe and battery temperature detection probe;
- Shelf with VRLA battery storage.

The product is the result of a series of initiatives to undertake globalization and standardization processes of power supply and distribution equipment of **Auxiliary Services for ENEL MV Substation** in the international power grid. Specifically then, we are talking about a range of Power Stations intended to provide supply power to Auxiliary Services (AS) in various countries around the world where the standards of voltage levels and grid frequencies may differ from each other.

Because of such diversities, therefore, both the need to adapt the equipment to the power grid and to maintain high efficiencies, which for equipped modules are as high as **95%.**



COMMUNICATION

- Local and remote management
- Dry contact digital outputs

DIMENSIONS

The PSS rack has the following overall dimensions:
- Height: 2050 mm
- Width: 600 mm
- Depth: 600 mm

CONTATTI

+39 0523 50161
Via Andrea Noale, 351, 00155 Roma
www.dplatforms.it
info@dplatforms.it