

DFPW: power supply module

DFPW module generates the proper power supply required by the modules connected to **Domino** bus. To ensure proper operation, the input voltage of DFPW module must be 230Vac 50Hz.

DFPW can supply up to 50 modules of **Domino** family. If the number of installed modules overrides this limit, or if the bus is very long (causing an excessive voltage drop), it is necessary to connect other DFPW module near to the main one as shown in the following schematic diagrams.

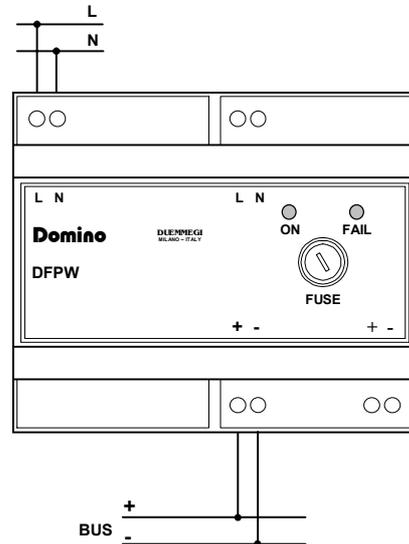
DFPW housing is a standard DIN 6M module and it provides a 2-pole terminal block for the connection to the input voltage (230Vac) and a 2-pole terminal block (+ e -) for the connection of **Domino** bus. Two additional 2-pole terminal blocks allows the connection of more DFPW modules (see connection diagrams).

A green LED (ON) on the front panel monitors the power on condition and a fuse disconnects the output if a short circuit occurs; in this case, the green LED will be switched off and a red LED will be switched on to signal the fuse fault condition.

On the contrary of the majority of other **Domino** modules, DFPW module does not require any address.

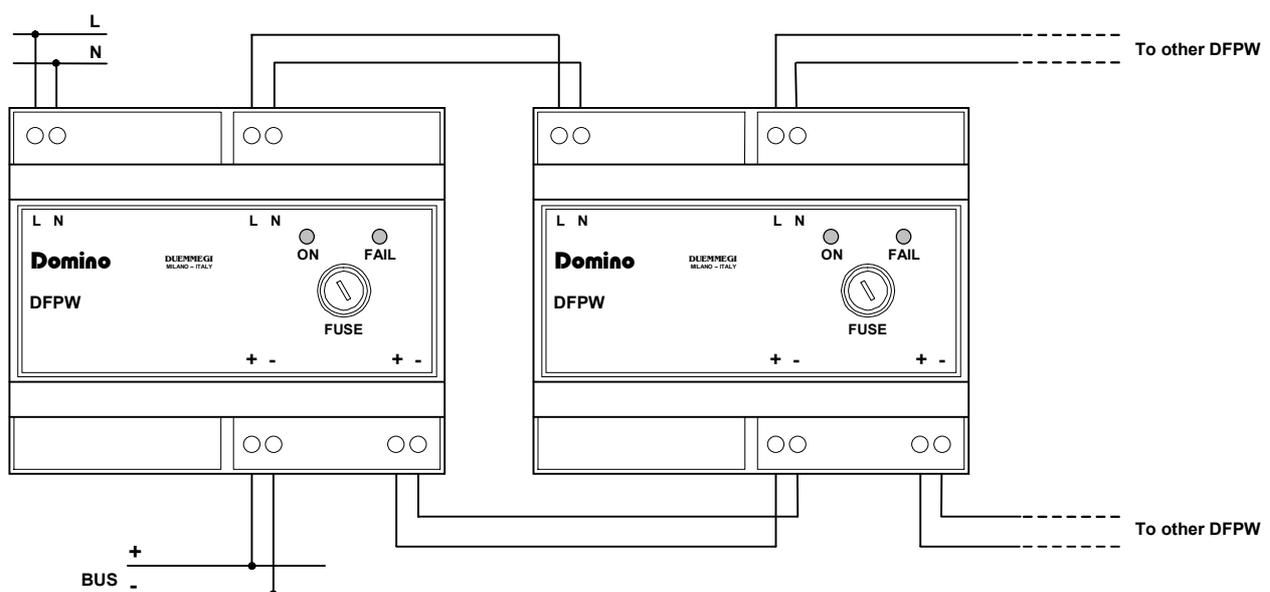
Module connection

Following figure shows the proper connections to be made for DFPW module.



If more than 50 input/output **Domino** modules were installed, or if the bus length causes incorrect operation of some modules (especially output modules) due to the voltage drop across the bus cable, then more DFPW power supply modules have to be installed. If the bus cable is very long, each DFPW module must be located, according to the system topology, in such a way to minimize the voltage drop on the modules.

If more DFPW modules are required, connect as shown by the following figure.



Note: terminals L/N and +/- are doubled in order to make easy the connections when more DFPW adjacent modules have to be installed. When connecting more supply modules, it is mandatory to meet the shown polarities for the connections L/N and +/- between a DFPW module and the next one; in other cases the system cannot operate.

Technical characteristics

Input power supply	230Vac \pm 10% 50Hz, 20VA
Nominal output voltage (bus)	25V peak pulsed waveform SELV
Fuse	Glass type, 5x20 1A
Allowable number of modules for each DFPW	50
Housing	Standard DIN 6M for DIN rail
Operating temperature	-5 \div +50 °C
Storage temperature	-20 \div +70 °C
Protection degree	IP20

Outline dimensions

