



Description

The US-12N microprocessor-controlled automatic transfer switch has two 230Vac inputs (AC1 and AC2) for two different power sources (mains, inverter, generator, etc.). As default, the 230Vac loads are supplied from the power source which is connected to the AC2 input. When this power source is no longer available (power failure, inverter deep-discharge disconnection, etc.), the loads are transferred automatically and safely to the AC1 power source.

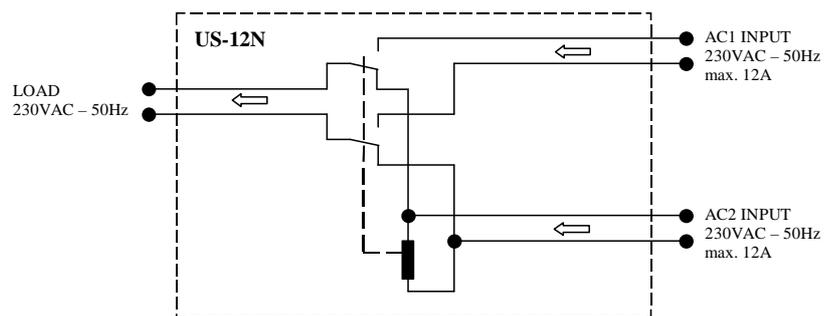
Mobile applications: while on the road (car, campers, caravans, boats, etc.), your 230Vac loads on board can be fed by the inverter which converts your battery voltage into 230V / 50Hz. Whenever there is utility voltage available near your vehicle (e.g. campsite), simply plug in, your US-12N device will detect the mains voltage at its input and it automatically switches the load over to the mains. No need for re-cabling and disconnecting your whole inverter system (Mains: AC2; Inverter: AC1)

Stationary applications: the US-12N bypass station can also be used in conjunction with an inverter and batteries as part of a UPS (uninterrupted power supply) system. The loads are fed by the 230Vac mains voltage which, in case of a black-out, are transferred automatically to the inverter's output (Mains: AC2; Inverter: AC1)

In some applications where there is a stand-alone solar or wind system with available mains supply, one can choose to use up the energy stored in the batteries first and when the inverter disconnects due to low battery voltage (LVD), the US-12N switch transfers the loads to the mains (Mains: AC1; Inverter: AC2)

Installation

The installation must be carried out by a qualified professional. Wiring is to be done in accordance with the corresponding regulations. The Loads (Verbraucher) and the two power source (AC1 and AC2) connections are on screw terminals inside the IP55 rated enclosure. The protective earth (PE) wires must be connected together in a separate screw terminal (provided in the box). If the connected inverter does not have an earth connection, the battery pole, which is earthed, must be connected together with the protective earth of the mains and load.



Specifications

Nominal voltage:	230 V AC ~ 50 Hz
Contacts:	max. 230 V AC ~ 50 Hz
Switch-over time:	less than 1 sec (not uninterrupted nor synchronised)
Max. current:	12 A
Max. output power:	2.760 VA
Dimensions (L x W x H):	130 x 130 x 60 mm
Weight:	300 g

Subject to alteration without notice