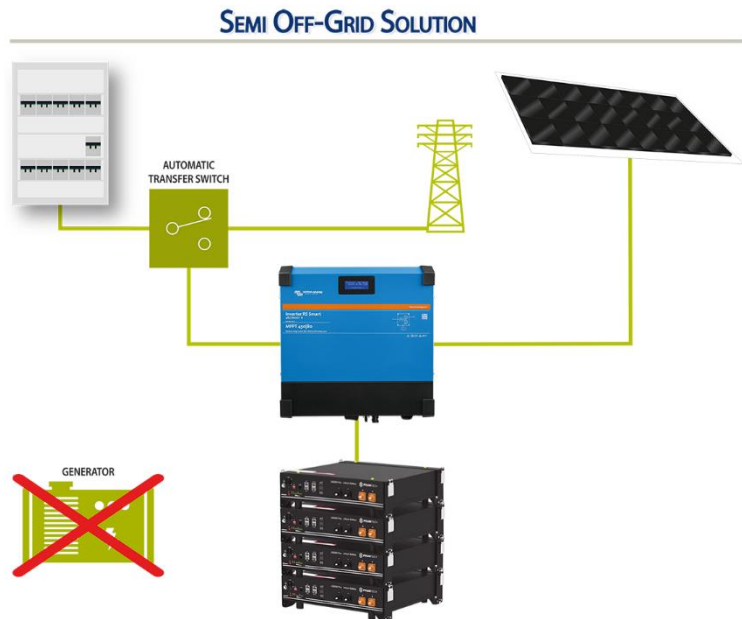


Transfer Switch

Grid-connected inverters always have to be type-approved by Synergrid. Only a limited number of Victron Energy inverters meet all the requirements, which means that we come up against a number of limitations in grid-connected installations. The many constraints imposed by Synergrid also restrict creative solutions.

Our **semi off-grid system** is a solution for this. With this system, we work off-grid as much as possible; completely off-grid is unrealistic in Belgium. So a generator often has to be provided, but these are expensive, noisy and polluting. On the other hand, the grid is still the cheapest power supply.



With a balanced semi off-grid energy system, we operate off-grid for 8-9 months per year, and only use the grid during the dark winter months. When the switch-over occurs, the off-grid system is first completely disconnected before consumers are connected to the grid; this is the 'break before make' principle. The interruption is so short that it does not adversely affect electrical appliances, and everything can just keep on working without a hitch. With our automatic transfer switch, we are no longer covered by the Synergrid rules, and are free to choose the devices.

In normal operation "Inverter" has priority over "Grid". When no inverter power is present the unit will switch to grid. An external contact can also be used to switch the unit. Before switching back from grid to inverter (off-grid mode) there is a waiting time (timer controllable by user); this to avoid unnecessary and uncontrollable switching. The switching time itself is still very short (50 – 60ms). This Transfer Switch can also be used in 1F-system.

Specifications

	TS40A-4P	TS80A-4P
Input inverter(s)	3F+N 40A	3F+N 80A
Input grid	3F+N 40A	3F+N 80A
Output	3F+N 40A	3F+N 80A
Switching time	>50ms <60ms	>50ms <60ms
Status lights	2 green lights showing status "Off-grid" or "On-grid"	
Enclosure	Polyester IP65	Polyester IP65
Dimensions (mm)	300x200x160	400x300x206
Entries	3xM32 + 1xM20	3xM40 + 1xM20

