

## HYBRID INVERTER

### ULTRA HYBRID PRO 8K 3F



#### Features

- Combines the function of an on-grid and off-grid
- Easy parameters configuration via LCD touchscreen
- Built-in Smart Meter and current transformers included with the inverter
- Cooperation with the Ultra 5 energy storage
- Short-circuit, overload and temperature protection
- Computer software via USB or external WIFI remote control module included (view and control of parameters)
- Compatible with the system BMS
- 3-phase power supply with continuous power up to 8kW without mains power
- Possibility to connect a 3-phase generator with autostart option (built-in relay)
- 5 operating modes: Store Mode, Load First Mode, Battery First Mode, Grid First Mode and Advanced Mode (manual setting of the operating mode for different hours of the day)
- Possibility of parallel operation of up to three inverters
- Possibility of cooperation with other inverters connected to the building's electrical installation (charging the battery with surplus energy from another inverter)

INDEKS: 3SSHZ9083F

EAN: 5904100452316

#### How does hybrid inverter combines the function of on-grid/off-grid?

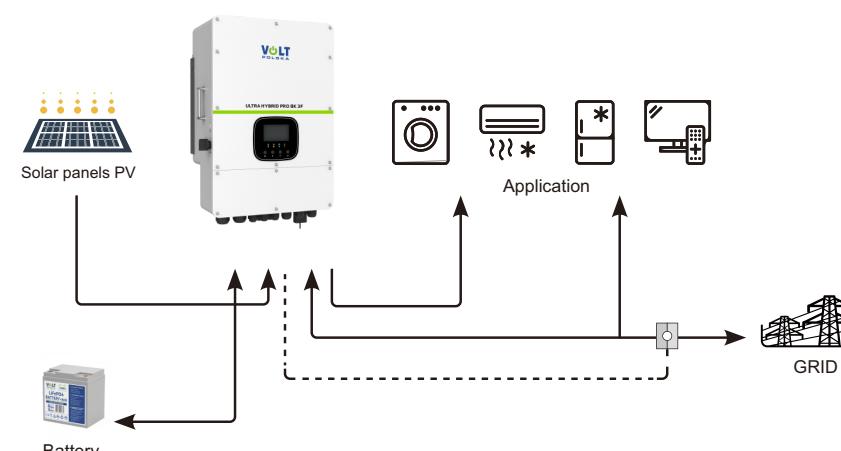
##### On-grid:

In on-grid when the photovoltaic installation is connected to the user's electrical installation the hybrid inverter works like a typical on-grid inverter. It converts direct current (DC) generated by solar panels into alternating current (AC). Thanks to that we can power electrical devices in the house. Surplus energy is sent via the inverter to the power grid.

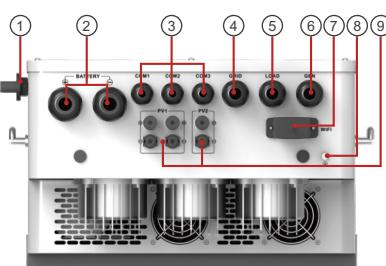
##### Off-grid:

In off-grid the hybrid inverter operates independently of the user's electrical installation. The energy obtained from solar panels is stored in batteries and then transferred to the connected devices we want to power.

#### Solar system connection



#### Back panel description



- DC switch
- Battery input connectors
- BTS terminals, BMS terminals, load monitor terminals, dry contact terminals, CAN communication terminals, USB terminal and cover
- Circuit breaker of Grid
- Load
- Generator input
- WiFi Interface
- Ground
- PV input with two MPPT

## Specification

| Model                | ULTRA HYBRID 8000                                 |                        |
|----------------------|---|------------------------|
| PV Input (DC)        | Maximum recommended DC power                      | 6500W                  |
|                      | Nominal DC operating voltage                      | 550V                   |
|                      | Maximum DC voltage                                | 800V                   |
|                      | MPPT voltage range                                | 200-650V               |
|                      | Maximum input current                             | 13A/13A                |
|                      | Number of MPPT tracker                            | 2                      |
| Inverter Output (AC) | Strings per MPPT tracker                          | 2                      |
|                      | Output voltage range                              | 220/230/240V;180-280V  |
|                      | Maximum output current                            | 13,4/12,8A             |
|                      | Frequency (Hz)                                    | 50/60Hz; 45-55/55-65Hz |
| Battery              | Grid type   | 3 phase                |
|                      | Battery voltage                                   | 48V                    |
|                      | Battery voltage range                             | 40-60V                 |
|                      | Maximum charging current                          | 190A                   |
|                      | Output waveform                                   | Pure sine wave         |
|                      | Protections: short circuit, overload, temperature | Yes                    |
|                      | Maximum efficiency                                | 97,10%                 |
|                      | Operating Temperature                             | (-25~60°C >45°C)       |
|                      | Interfejs   | RS485/CAN              |
|                      | Cooling   | Fans                   |
|                      | Dimensions  | 446x692x260mm          |
|                      | Weight  | 38kg                   |
|                      | Gross dimensions                                  | 816x567x404mm          |
|                      | Gross Weight                                      | 46kg                   |