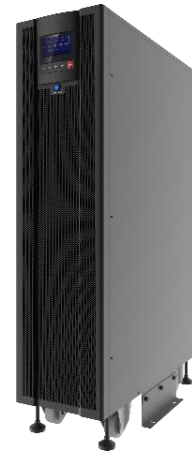


## MY

- TECHNOLOGY: **TRUE ON LINE Double Conversion**
- CLASSIFICATION: **VFI-SS-111 (EN 62040-3)**
- POWER RANGE: **30 kVA/kW**
- No. OF PHASES: **3:3 / 3:1**



### ■ APPLICATION

- Large computer networks
- Data processing centers
- Industrial facilities and equipment
- Laboratory equipment
- Telecommunication
- Automation and control systems

### ■ SPECIFICATION

**Technology True On-Line Double Conversion** provides excellent output voltage parameters regardless of power disturbances and the type of receivers being powered.

**Rectifier IGBT** the most advanced technology ensuring very low THDi and high power factor.

**Automatic bypass - uninterrupted** ensures uninterrupted power supply to critical loads such as overheating or failure.

**Service bypass** - enables servicing of devices without switching off powered receivers. Separate power supply Bypass track provides the ability to provide a reserve power source for receivers even in the event of a device failure or UPS protection in the main track.

**Communication interfaces:**

**RS 232, RS 485, ModBus** to monitor and manage the operation of the power supply and receivers,

**DryContact in/out** relay contacts for cooperation with BMS systems, **SNMP** integration with NMS network management systems ,

**Remote switch connector against Fire (REPO)** to ensure remote disconnection of power supply to receivers in the event of a fire, **Switch against Fire (EPO)** on the control panel it enables immediate disconnection of power from the receivers,

**Touch control and monitoring panel** gives the possibility of diagnostics of parameters and operation mode of the power supply and enables registration of events. Available languages include Polish English.

**Small dimensions** , thanks to which a large space for installing the device is not required.

**High efficiency of the device 96%** It reduces the own losses of the device and reduces the heat emitted, making possible cooling of the rooms easier and cheaper.

**ECO-Mode (HE)** It allows for a significant reduction of the unit's operating costs and virtually eliminates heat emission.

**Configured amount of batteries and charging current** it enables precise selection of the required time of autonomy.

**Configuration of the output 3:3 or 3:1** allows you to adjust the number of outputs depending on the receiving system and the way of powering your receivers.

**Function Self-Aging** allows you to test the device with full load, even without connected receivers.

**Automatic diagnostics with FTM (Fault Trace Management)** and fully digital control (32 bit DSP x2) guarantees full device efficiency, control of components and operating parameters without the need for user intervention.

**High value of the input power factor** limits the value of the current consumed by the device from the network.

**Maximum value of the output power factor PF = 1** provides 20% more active power than standard solutions with PF = 0.8.

**Maximum wide input voltage range -60% ÷ + 25%** in normal operation mode, it ensures stable operation of the device without the need to use batteries, which significantly affects the extension of their service life.

**A wide range of input frequencies** in the normal operation mode, it allows free use of the power supply in a network with unstable parameters and power supply from the generator set.

**Simplicity of use** ease of connection to the network and simple switching on and off of the device does not require special qualifications from the user.

**Advanced battery management** it guarantees optimal charging and use of batteries, increases their lifespan and lowers operating costs.

**Excellent quality of output voltage** achieved thanks to the use of the IGBT inverter using highly advanced PWM control technology, it provides voltage with stable parameters, regardless of the power disturbances and the type of powered equipment.

**High overload** provides device protection and continuity of power supply in the presence of transient transients, and reduces the need for oversizing the device in relation to the power of the receivers.

**Advanced software** allowing the user full control over the device and powered receivers.

**Configurable work parameters** nominal voltages, frequencies, preferred modes of operation, communication method - significantly broadens the range of possible applications.

**Redundant configurations:**

- redundant work for increased reliability
- capacitive parallel operation for increased power
- HotStandby operation (separated rectifier and bypass power supply)

## MY

| Model  | MY 30K   |
|--|--|
| Power  | 30 kW  |
| No of phases IN : OUT  | 3:3 / 3:1  |
| <b>Input</b>   |  |
| Nominal Voltage  | 380 / 400 / 415 VAC  |
| Voltage range  | -25% ÷ + 25% @ 100% load<br>-65% ÷ + 25% @ linear limited load   |
| Frequency  | 50/60 Hz   |
| Frequency range  | -20% ÷ +20 %   |
| THDi   | <3%  |
| Input power factor   | >0,99  |
| <b>Output</b>  |  |
| Nominal voltage  | 220 / 230 / 240 VAC or 380 / 400 / 415 VAC (configurable)  |
| Power factor   | 1,0  |
| Static / dynamic voltage regulation  | ±1% / ±3%  |
| THDu linear / not linear load  | <1% / <3%  |
| Nominal frequency  | 50/60 Hz ±0,1 Hz   |
| Inverter overload resistance   | 105% - cont.; 115% - 60 min., 130% - 10 min., 150% - 60 sec., >155% - 0,2 sek.   |
| Efficiency in On-Line mode   | 96%  |
| Efficiency in Eco mode   | 99%  |
| Crest factor   | 3:1  |
| <b>Battery</b>   |  |
| Type   | Sealed maintenance-free VRLA   |
| Max. amount of Internal batteries  | 2 x 40 x 7/9 Ah  |
| No. of batteries in string   | Configurable: 24 ÷ 40 psc<br>(for a string with a length of 24-30 pieces power limitation to 75% of the nominal value)                           |
| Maximum charging current   | 1 - 20A  |
| Charging time  | 3 - 8 hours to 90% capacity (configurable)   |
| Charging cycle   | According to DIN 41773 with automatic shutdown of charging according to the criterion of current and voltage, with time control.                 |
| <b>Bypass</b>  |  |
| Automatic bypass   | Static switch type Bypass, uninterruptible changeover  |
| Bypass manual mechanical   | Standard   |
| <b>Dimensions and weight</b>   |  |
| Dimensions and weight of UPS (W x D x H)   | 300 x 834 x 1250 mm  |
|  | 85 kg  |
| <b>Signaling and communication ports</b>   |  |
| Work status indicator  | 4.3" touch display, LED indicators, audible alarm  |
| Standard communication   | 3 x Smart Slot for additional communication cards,<br>REPO (NC), 5 x Dry Contact Out, 1 x Dry Contact In, RS485, Modbus.<br>RS232, SNMP: option. |
| <b>Environmental conditions</b>  |  |
| Noise level  | <50 dB   |
| Allowable working height   | Up to 2000m above sea level without power reduction  |
| Permissible operating temperature  | 0°C ÷ 40°C   |
| Recommended working temperature  | 15°C ÷ 25°C  |
| Storage temperature  | -25°C ÷ 55°C   |
| Humidity   | 0 ÷ 95% (without condensation)   |
| <b>Standards</b>   |  |
| Resistance to interference   | EN 62040-2:2005, EN 62040-2:2006   |
| Safety   | IEC62040-1-1, CE, EAC  |
| <b>Optional equipment</b>  |  |
| - SNMP card,<br>- Uninterruptible Bypass External<br>- Additional Dry Contact card | - Batteries in rack or in battery modules<br>- Sensor for battery voltage compensation<br>- Remote signaling panel                               |