

## BW

TECHNOLOGY:	<b>TRUE ON LINE Double Conversion</b>
CLASSIFICATION:	<b>VFI-SS-111 (EN 62040-3)</b>
POWER RANGE:	<b>30 – 300 kVA</b>
No. OF PHASES:	<b>3:3</b>



### ■ APPLICATIONS

- Large computer networks
- Data processing centres
- Medical and industrial equipment
- Clusters
- Tele information systems
- Automation and control systems

### ■ SPECIFICATION

**True On-Line Double Conversion technology** provides excellent output voltage parameters regardless of energy interference and the type of powered receivers.

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

**Modular construction** significantly simplifies and speeds up service activities (shortening the MTTR) and allows the UPS power to be adapted to the power loads in the range from 30 kVA to 300 kVA.

**Automatic, uninterruptible STS** ensures uninterrupted supply of receivers in critical situations such as overheating or failure.

**Service bypass** enables servicing of devices without switching off powered receivers. Separate power supply for the Bypass track gives the possibility to provide a backup power source for loads even in the event of a device failure or UPS protection in the main path.

#### Communication:

**RS232, USB** to monitor and manage UPS work,

**DryContact** relay contacts for cooperation with BMS systems,

**SNMP** integration with NMS network management systems,

**Remote fire switch connector (REPO)** to ensure remote disconnection of receivers power supply in the event of fire,

**LCD 10 " monitoring and monitoring panel (touchscreen)** gives the possibility to diagnose the parameters and the operating mode of the power supply, enables the recording of events and configuration of the UPS.

**Small dimensions** The 300 kVA UPS occupies a space of 0.66 m<sup>2</sup> and provides power packing at 455 kW / m<sup>2</sup>.

**High device efficiency (> 96%) over a wide load range** limits the heat emitted, making room cooling easier and operating costs low.

**ECO-Mode** allows a significant reduction in the operating costs of the device and virtually eliminates heat emissions.

**Dual Input Lines** that is, the possibility of using separate rectifier and Bypass power supply paths increases the availability of power supplies to the receivers.

**Automatic diagnostics** and 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 input power factor 0.99** limits the current drawn by the device from the network.

**High output power factor of 1.0** allows the UPS to be charged with the maximum active power.

**Wide input voltage range** in normal operation mode, it ensures stable operation of the device without the need for batteries, which significantly increases their lifetime.

**Wide input frequency range** in normal operation mode, it allows free use of the power supply in a network with unstable parameters and when powered from a power generator.

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

**Advanced battery management** guarantees optimal charging and use of accumulator batteries, increases their service life and reduces operating costs. Charging voltage temperature compensation function.

**Very efficient charging systems** each power module has a built-in separate battery charging system, thanks to which it is possible to use high-capacity batteries for long battery life.

**Excellent output voltage quality** achieved thanks to the use of a 3-level IGBT inverter, using advanced PWM control technology, ensures that voltage with stable parameters is supplied, regardless of energy interference and the type of powered devices.

**High overload** ensures device protection and power continuity in the presence of transient transients.

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

**Configurability of operating parameters** nominal voltages, frequencies, preferred modes of operation, communication method - significantly expands the range of possible applications.

#### Redundant configurations:

- redundancy of N + 1 or N + X power modules
- parallel redundancy operation to increase 1 + 1 reliability
- parallel capacitive operation for increasing power x2
- HotStandby work

## BW

Model	BW 300
<b>Power</b>	<b>30 kW / kVA – 300 kW / kVA</b>
No. Of phases IN : OUT	3:3
Hot swap power modules	Yes
Capacity of power module	30 kW / kVA
Maximum numbers of power modules	10
<b>Input</b>	
Voltage	380 / 400 / 415 VAC
Voltage range	305 – 478 VAC for load 100%; 208 – 478 VAC for load. <70%
Frequency	50 / 60 Hz
Frequency range	40 – 70 Hz
THDi	<3%
Input power factor	≥0,99
<b>Output</b>	
Voltage	380 / 400 / 415 VAC
Power factor	1,0
Voltage regulation static/dynamic	±1% / ±2%
THDu linear / not linear load	<1% / <3%
Frequency	50 / 60 ± 0,05 Hz
Overload capacity inverter	110% - 60 min., 125% - 10 min., 150% - 60 s, >150% - 300 ms
Overload capacity bypass	125% - continuous, 130% - 10 min., 150% - 60 s., >150% - 300 ms
Shot-circuit resistance	300% value of nominal current for 110 ms
Efficiency in On-Line mode	>96%
Efficiency in Eco Mode	99%
Crest factor	3:1
<b>Batteries</b>	
Cold start	Yes
Amount of batteries in 1 string (external batteries)	32-40 pcs. Of batteries 12V
Charging system performance with 1 power module	max. 8 A - configurable
Charging time	3 – 8 hours up to 90% of capacity (configurable)
Charging cycle	According to DIN 41773 with automatic shutdown of charging according to current and voltage criteria, with time control, option of temperature compensation of charging voltage
<b>Weight and dimensions</b>	
Dimensions and weight of UPS [mm] (W x D x H) (with 10 power modules)	600 x 1100 x 2010
	620 kg
Weight of single power module	34,5 kg
<b>Communications</b>	
Working indicator	10 " color LCD touch screen, LED indicators, LED indicators on each power module, audible alarm
Communication	RS232, USB, Dry Contact, SNMP, REPO, parallel connectors
<b>Environmental</b>	
Noise level (depends how many modules)	<65 dB @ load. 100%, <62 dB @ load. 50%
Operating temperature for UPS	0°C ÷ 40°C
Recommended operating temperature for UPS	15°C ÷ 25°C
Storage temperature	-20°C ÷ 40°C
Humidity	0 ÷ 95% (without condensing)
<b>Certification</b>	
Standards	EN 62040-2:2005, EN 62040-2:2006
Safety	IEC62040-1-1, CE, 62040-3 :2001
<b>Options</b>	
- Uninterruptible external maintenance bypass	- Additional power modules
- SNMP card	- Parallel card between UPS units
- Environmental sensor (EMD)	

Official Distributor:

