

# The Server UPS.

## **ZINTO** Serie

NEW!

**DPT**  
DYNAMIC  
POWER  
TECHNOLOGY



## High grade: Technological advances as standard

ZINTO is the latest generation in the successful series of ONLINE UPS systems. This generation is the result of almost 30 years of UPS experience and provides sensitive applications with power failure and data loss protection. The outstanding highlight of ZINTO is its future-oriented DYNAMIC POWER TECHNOLOGY (DPT). It dynamically adapts the output power of the UPS system to its load and increases where necessary the active power (watts) up to 90% of the UPS rated value. More power is thus available than with conventional UPS systems. Noiseless operation is a further innovation. Under normal conditions all ZINTO up to 3000VA operate without fan and therefore noiseless. Another benefit is ZINTO's

buck-and-boost function which electronically handles voltage fluctuations without using a battery. This increases the life expectancy and minimises ongoing costs.

ONLINE USV-Systeme AG (ONLINE) is one of the leading manufacturers of uninterruptible power supplies (UPS). Since 1988, the German company has focussed on the development, production, sale and support of UPS systems. Based on unit numbers sold, ONLINE products are the German number one in the UPS market and internationally recognised because of their top quality and excellent support.

## Convincing: Multiple applications



### Cost-effective purchasing, reliable operation

ZINTO distinguishes itself by offering more power, greater autonomy times and favourable price. Thanks to its convincing features, ZINTO is the global standard for protecting critical applications from power failure, data loss and cost-intensive operational interruptions.

### Reliable blood testing:

In addition to being used in classic server or IT applications ZINTO is also used in the medical sector to analyse blood samples. In this case the analysis equipment defines, for examples, values for complete and partial blood counts or is used to detect infectious diseases such as HIV, malaria, hepatitis and tuberculosis. A UPS has to be especially reliable in this area. All samples would be unusable if the power supply were to be interrupted during the process of analysis.



## In economic terms: ZINTO therefore pays for itself

The new and future-oriented DYNAMIC POWER TECHNOLOGY from ONLINE USV-Systeme is considered to be a pioneering breakthrough in the UPS sector. It provides the connected load up to 38% more effective power (watts) than conventional and widely available UPS systems. A smaller UPS model with lower purchase cost can therefore be used with ZINTO.

**DPT**  
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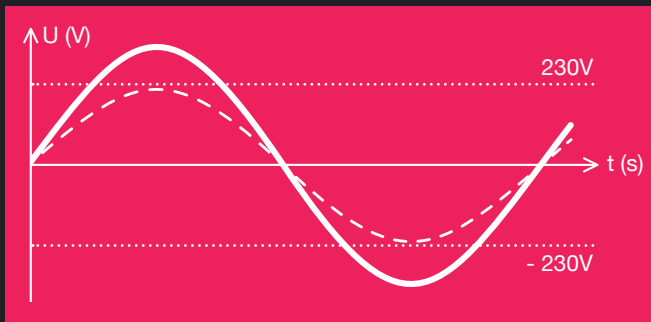
### SAMPLE CALCULATION AT 1800 WATT:

	Purchase costs (EVP), pricing 2017
Conventional UPS, 3000VA / 1800W	EUR 1904.00
Modern ZINTO 2000 with DPT, 2000VA / 1800W	EUR 1109.08
<b>SAVING</b>	<b>= EUR 794.92</b>

# – Moving into the UPS professional league

## BATTERY-FREE VOLTAGE REGULATION:

The 'Buck & Boost' function offers additional security: by electronically handling short power outages without using a battery. This increases the life expectancy of the battery and minimises ongoing costs.



## LOAD CUTOFF WITHOUT SOFTWARE

With all ZINTO models, load without interface or software can be switched off automatically by using the switchable output sockets. In battery operation, this reduces the load of ZINTO and the autonomy time for the remaining critical consumers is extended.



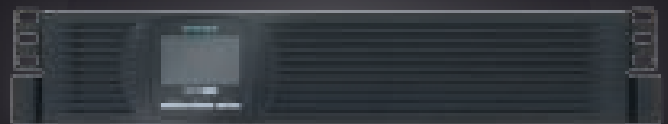
## NOISELESS NORMAL OPERATION



Semiconductors with low power consumption, efficient component layout and intelligent fan control eliminate any unpleasant noises during the operation of ZINTO. In normal operation the fan is not needed at all. ZINTO operates noiselessly and is therefore the ideal UPS solution for the workplace or noise-sensitive areas in doctors' offices, salesrooms and many other such areas.

## FLEXIBLE INSTALLATION

The innovative device class of ZINTO offers unlimited possibilities for mixing and matching variants: The flexible **versatile rack-tower design** with only 2 U enables the flexible installation of ZINTO, especially after relocation or system expansion. The display of the UPS system is adapted for this purpose without tools to the horizontal type of mounting and installed using the 19" angle included in the scope of delivery.



## OPERATOR-FRIENDLY LIQUID-CRYSTAL DISPLAY:



ZINTO's liquid crystal display shows basic information about input and output voltage, frequency, autonomy time and load. The display can be rotated without tools

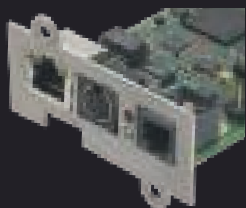
and the installation type of the UPS system can be modified as tower or in rack to make sure it can be ergonomically read.

The DataWatch software also enable easy access to the complete ZINTO menu. Many other useful settings and functions, such as the classic server shutdown, test programs or a powerful event and data recording, are available here.

## BATTERY DEEP DISCHARGE PROTECTION + COLD-START FUNCTION

New with ZINTO is the protective function of the battery against deep discharge. It can be activated and parameterized either directly via the menu of the UPS system or via the DataWatch-Software. The exhaustive discharge protection switches off the UPS system before irreparable damage is caused to the battery. With the additional cold-start function from ZINTO, the UPS system can be started directly from the battery and without primary mains voltage. This feature is very useful when the UPS system is used as emergency generator.

## Flexible: SNMP adapter and DataWatch software



The optional **SNMP adapter** is the professional solution for multiserver shutdown and for remote administration of the UPS.

Thanks to its powerful 32-bit RISC processor, the SNMP adapter supports all well known functions such

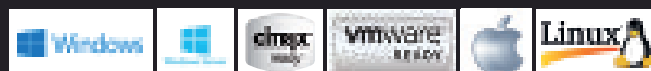
as **automatic data backup** with **closure of running applications** and **orderly shutdown** of the complete system. An extensive **messaging system**, freely **programmable routines**, **time-controlled tests** and an **event log** are also mandatory.

A **temperature or temperature/humidity sensor** can also be directly connected to the "professional" version (order no. DW5SNMP30).

The standard scope of delivery of the ZINTO series includes the **DataWatch software**. This software continually communicates with ZINTO via the RS-232 or USB interface and monitors all processes. DataWatch operates in the background and is the all-round software solution for the shutdown and management of the PC system or server system, as well for monitoring the ZINTO and the mains power supply.

The RCCMD software agent is recommended for shutting down multiple servers connected to an UPS. It is event driven and thus reduces unnecessary data traffic in the network.

**The entire communication is supported by all operating systems.**



An optional AS400/relay card can be added to the ZINTO for communication with IBM AS400 servers or for integration in industrial switchgear. Dry-contacts (via relay) with the following functions are available on its terminal strip: Normal operation, battery operation, battery voltage low, bypass mode, standby mode, group fault. The UPS can be shut down remotely via an additional input contact.

## Unbeatable: The ONLINE service



Mobile Configurator



As a German supplier, **ONLINE** guarantees:

- **Direct advice and support**
- **2 years full warranty incl. battery**
- **Free 24-hour advanced replacement with new device**
- **14-day money-back guarantee**

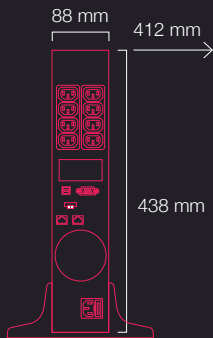
Our UPS configurator, which can be found at [www.online-usv.de](http://www.online-usv.de), provides extensive support in selecting and dimensioning your optimal UPS system.

But we prefer to give you one-to-one assistance. Please call us on 089 / 242 3990 – 10.

# – For sophisticated requirements

## Higher performance, quieter, better: The features

- Trend-setting DYNAMIC POWER TECHNOLOGY for more wattage
- Flexible versatile rack-tower design, only 2 U
- Noiseless normal operation up to 3000VA
- Battery-free voltage control with buck-and-boost function
- Switchable output sockets to extend the autonomy time for critical loads
- Hot-swap battery
- 2 years warranty incl. battery and 24h advanced replacement with new device



### **ZINTO 800**

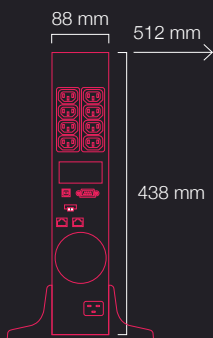
Order no. Z800  
Nominal capacity:  
800VA / 720W,  
14 minutes  
Weight: 12.9 kg

### **ZINTO 1000**

Order no. Z1000  
Nominal capacity:  
1000VA / 900W,  
19 minutes  
Weight 14.5 kg

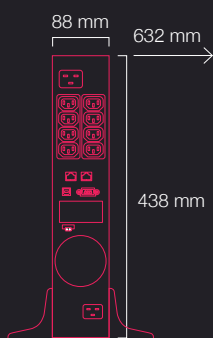
### **ZINTO 1500**

Order no. Z1500  
Nominal capacity:  
1500VA / 1350W,  
23 minutes  
Weight 21 kg



### **ZINTO 2000**

Order no. Z2000  
Nominal capacity:  
2000VA / 1800W,  
17 minutes  
Weight 21.5 kg



### **ZINTO 3000**

Order no. Z3000  
Nominal capacity:  
3000VA / 2700W,  
17 minutes  
Weight 29.3 kg



# ZINTO SERIES TECHNICAL DATA

MODEL	ZINTO 800		ZINTO 1000		ZINTO 1500		ZINTO 2000		ZINTO 3000		
Order no.	Z800		Z1000		Z1500		Z2000		Z3000		
Design	Rack-tower versatile model										
NOMINAL CAPACITY											
Apparent power	800VA		1000VA		1500VA		2000VA		3000VA		
Effective power	720W		900W		1350W		1800W		2700W		
Technology	Line interactive technology with sine output voltage and Buck&Boost function.										
INPUT											
Nominal voltage	230V										
Voltage tolerance, normal operation	176 - 274V										
Frequency	50 / 60Hz (automatic detection) +/-5Hz										
Max. input current	6.0A		7.4A		11.0A		14.9A		17.6A		
Cold-start function	Yes										
Input connector	IEC320 C14		IEC320 C14		IEC320 C14		IEC320 C20		IEC320 C20		
OUTPUT											
Nominal voltage, tolerance battery operation	230V +/-3%										
Voltage adjustable to	208 / 220 / 230 / 240V										
Output frequency, normal operation	like input										
Output frequency, battery operation	50 / 60Hz +/-1Hz										
Wave form	Sine										
Efficiency, normal operation	97%										
Efficiency, buck-and-boost operation	95%										
Efficiency, battery mode	89%		89%		91%		91%		92%		
Power loss, max.	88W		110W		165W		220W		330W		
Output current, max.	4.2A		5.3A		7.9A		10.6A		15.9A		
Output sockets	8x IEC320 C13		8x IEC320 C13		8x IEC320 C13		8x IEC320 C13		8x IEC320 C13 1x IEC320 C19		
BATTERY											
Hot swap battery	Yes										
Type and quantity	2x 12V / 7Ah		2x 12V / 12Ah		4x 12V / 9Ah		4x 12V / 9Ah		6x 12V / 9Ah		
Nominal voltage	24V		24V		48V		48V		72V		
Charge current	1.5A										
Charging time to 90% capacity	<6 hours										
Typ. Autonomy times at 50 and 100% load and pf=0.7	14 / 6		19 / 7		23 / 10		17 / 6		17 / 6		
INTERFACES, SOFTWARE											
USB interface	Yes										
RS-232 interface	Yes										
Overvoltage protection for data and telephone wires	Yes										
SNMP slot	Yes										
Emergency-off	Yes										
Switchable output sockets	Yes										
Network management card, basic	optional (order no. DW7SNMP30)										
Network management card, professional	optional (order no. DW5SNMP30)										
AS400-/relay card	optional (order no. DWAS400DC)										
DIMENSIONS, WEIGHT											
Dimensions W x H x D	438 x 88 (2U) x 412		438 x 88 (2U) x 412		438 x 88 (2U) x 512		438 x 88 (2U) x 512		438 x 88 (2U) x 632		
Weight	12.9kg		14.5kg		21kg		21.5kg		29.3kg		
AMBIENT CONDITIONS											
Operating temperature	0 - 40°C										
Rel. air humidity	0 – 90%										
Operating noise, normal operation / max.	Silent / <45 dB										
MTBF at 25°C (except battery)	>50,000 hours										
PACKAGE CONTENTS											
19" mounting bracket (left and right)	2										
Feet for tower mounting (sets)	2										
USB interface cable	1										
10A power extension cable	2		3		3		4		4		
16A mains cable	1										
Quick start guide	1										
CERTIFICATION, WARRANTY											
Classification	VI										
Safety	EN62040-1										
EMC, Performance	EN62040-2 (EN61000-2-2, EN61000-3-2, EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-8)										
Approval	CE										
Protection class	IP20										
Warranty	2 years incl. battery										