

The UPS for maximum security in industry and data centre

XANTO Serie

700 - 3,000VA

NEW!

DPT
DYNAMIC
POWER
TECHNOLOGY



– the ultimate UPS safety concept

The Top 8: Features

- 700 – 3000VA, double conversion technology
- Highest safety level (VFI-SS-111) and perfect sinewave output voltage
- Trend-setting DYNAMIC POWER TECHNOLOGY for more wattage
- 97% efficiency: Lower operating costs due to high energy efficiency
- Scalable autonomy time of up to 652 minutes
- Flexible versatile rack-tower design or classic tower
- Switchable output sockets: Extension of the autonomy time for critical loads
- 2 years warranty incl. battery and 24h advanced replacement with new device



Perfect: The ultimate protection against power failure and data loss

The new XANTO is the result of the consistent further development of tried-and-proven ONLINE UPS concepts. The premium-class UPS protects servers, switchgear and controlgear, IT and sensitive applications against power failure and data loss.

The XANTO **double conversion technology** provides a complete decoupling of the load from the electricity supply system. Even extreme voltage fluctuations, voltage peaks and harmonic waves cause no damage to the supplied devices. A smooth, **uninterrupted transition is guaranteed in the event of a power failure**. The outstanding highlight of XANTO is its future-oriented DYNAMIC POWER TECHNOLOGY (DPT). It dynamically adapts the output power of the UPS system to its consumers and increases where necessary

the active power (watts) up to their nominal value (watt = VA). More power is thus available than with conventional UPS systems. In addition, the new XANTO provides up to **more than double the autonomy time** that its predecessor model did. The low operating costs due to its up to 97% **efficiency is an added advantage**.

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.

In economic terms: XANTO therefore pays for itself

Reduces purchase and operating costs, and at the same time protects the environment.

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 54% more active power (watts) than

conventional and widely available UPS systems. Therefore with XANTO a smaller UPS model with lower costs can be used as a result. At the same time the UPS system reaches its optimum operating range and reduces the heat losses. This benefits both the environment and the purse of the operator.

SAMPLE CALCULATION AT 1950 WATT

CONVENTIONAL UPS SYSTEM:

3000 VA / 1950 watt, 80% efficiency → Power loss = 20%
 1950 watt x 20% power loss = 390 watt power loss
 390 watt power loss x 0.3 EUR/kWh = EUR 1024.92 heating costs / year

MODERN XANTO 2000 WITH DYNAMIC POWER TECHNOLOGY:

2000VA / 2000 watt, 91% efficiency → Power loss = 9%
 2000 watt x 9% power loss = 180 watt power loss
 180 watt power loss x 0.3 EUR/kWh = EUR 473.04 heating costs / year

	heating costs	Purchase costs (EVP), pricing 2017
Conventional UPS, 3000VA	EUR 1024.92 / year	EUR 2915.50
Modern XANTO 2000 with DPT	EUR 473.04 / year	EUR 1560.09
SAVING	= EUR 551.88 / year	= EUR 1335.41

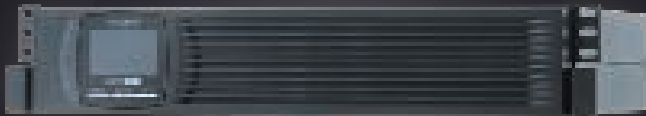
DPT
 DYNAMIC
 POWER
 TECHNOLOGY



- the UPS professional league

FLEXIBLE INSTALLATION

The innovative device class of XANTO offers unlimited possibilities for mixing and matching variants: XANTO is available either as classic tower or in the **versatile rack-tower design** with only 2 U. The versatile rack-tower design enables flexible installation, in particular 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.



LOAD CUTOFF WITHOUT SOFTWARE

With all XANTO models, loads without interface or software can be switched off automatically by means of switchable output sockets. In battery operation the load of XANTO is reduced as a result and the autonomy time for the remaining critical consumers is extended.



SCALABLE AUTONOMY TIME

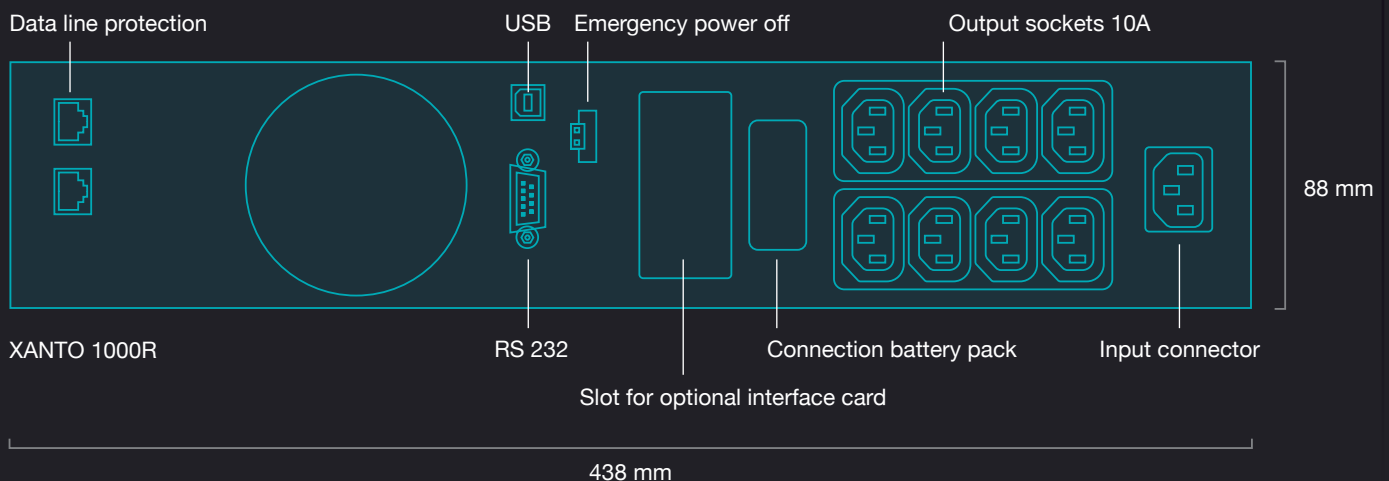
With external battery packs, XANTO can in each case adapt the autonomy time to its specific requirements. Therefore, shutting down large networks and backing up extensive databases no longer represent any safety risk.

After extensive redesign of the UPS internal charging unit, up to seven additional battery pack can also be connected subsequently to a XANTO (model 1000 or higher). With XANTO 1000, for example, this enables a typical autonomy time of more than 650 minutes to be achieved. This corresponds to more than double the predecessor model.

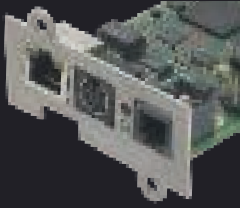
BATTERY DEEP DISCHARGE PROTECTION + COLD-START FUNCTION

New with XANTO is the protection function of the battery against exhaustive discharge. It can be activated and parameterized either directly via the menu of the UPS system or via the DataWatch software. The deep discharge protection switches off the UPS system before irreparable damage is caused to the battery.

With the additional cold-start function from XANTO, the UPS system can be started directly from the battery and without primary mains voltage. This features is very popular 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 XANTO series includes the **DataWatch software**. This software continually communicates with XANTO 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 XANTO 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 XANTO 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, 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.

TECHNICAL DATA FOR XANTO SERIES

MODEL	XANTO 700 / R	XANTO 1000 / R	XANTO 1500 / R	XANTO 2000 / R	XANTO 3000 / R
UPS item number (tower / rack-tower)	X700 / X700R	X1000 / X1000R	X1500 / X1500R	X2000 / X2000R	X3000 / X3000R
Battery pack item no. (tower / rack-tower)	- / -	X1000BP / X1000RBP	X1000BP / X1000RBP	X2000BP / X2000RBP	X3000BP / X3000RBP
NOMINAL CAPACITY					
Power	700VA / W	1000VA / W	1500VA / W	2000VA / W	3000VA / W
Technology	Double converter technology				
INPUT					
Nominal voltage	230V				
Voltage tolerance normal operation at 50 / 100% load	110 - 300V / 160 - 300V				
Frequency	50 / 60Hz (automatic detection)				
Max. input current	5.3A	7.7A	11A	15.3A	17.6A
Cold start	Yes				
Input connector	IEC320 C14	IEC320 C14	IEC320 C14	IEC320 C20	IEC320 C20
OUTPUT					
Voltage, tolerance battery operation	230V +/-1% (208 / 220 / 230 / 240V configurable, 20% power reduction at 208V)				
Wave form	Sine				
Output frequency, normal operation (battery operation)	50 / 60Hz +/-3Hz (+/-0.1Hz)				
Overload behaviour, normal operation (battery operation)	<110% load	Alarm			
	110 - 130% load	Alarm, bypass/standby after 5 min. (after 2 min.)			
	131 - 140% load	Alarm, bypass/standby after 30s (after 10s)			
	>140% load	Alarm, Bypass/Standby after 1.5s			
Efficiency, normal operation (battery operation)	>91%				
Efficiency, high-efficiency mode	>97%				
Power loss, max.	119W	170W	255W	340W	510W
Output current, max.	3.5A	5A	7.5A	10A	15A
Output sockets, tower	4x IEC320 C13	4x IEC320 C13	4x IEC320 C13	8x IEC320 C13	8x IEC320 C13 1x IEC320 C19
Output sockets, rack-tower	8x IEC320 C13	8x IEC320 C13	8x IEC320 C13	8x IEC320 C13	6x IEC320 C13 1x IEC320 C19
BATTERY					
Type and quantity, UPS	2x 12V / 9Ah	3x 12V / 9Ah	3x 12V / 9Ah	4x 12V / 9Ah	6x 12V / 9Ah
Type and quantity, battery pack		2x 3x 12V / 9Ah	2x 3x 12V / 9Ah	2x 4x 12V / 9Ah	2x 6x 12V / 9Ah
Nominal voltage	24V	36V	36V	48V	72V
Charging voltage	27.4V	41.1V	41.1V	54.8V	82.1V
Charge current	2 - 12A				
Charging time to 90% capacity [+nBP(s): 1 / 2 / 3 / 4 / 5 / 6 / 7]	<4 hours [7 / 7.5 / 8 / 8 / 10 / 12]				
TYP. AUTONOMY TIMES AT 50 AND 100% LOAD AND PF=0.7					
Standard (UPS internal battery)	24 / 10	27 / 11	15 / 6	16 / 6	17 / 6
plus 1 battery pack	-	103 / 46	61 / 28	65 / 28	67 / 29
plus 2 battery packs	-	190 / 86	114 / 52	121 / 52	125 / 53
plus 3 battery packs	-	280 / 129	171 / 79	180 / 78	186 / 81
plus 4 battery packs	-	373 / 174	229 / 107	241 / 106	249 / 109
plus 5 battery packs	-	465 / 221	289 / 136	304 / 135	314 / 139
plus 6 battery packs	-	559 / 268	349 / 165	367 / 165	378 / 170
plus 7 battery packs	-	652 / 315	409 / 196	430 / 195	443 / 201
SPECIAL FUNCTIONS					
Frequency converter mode	Yes				
Switchable output sockets	Yes				
INTERFACES, SOFTWARE					
USB interface	Yes				
RS-232 interface	Yes				
Overvoltage protection for data and telephone wires	Yes				
SNMP slot	Yes				
Emergency-off	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 UPS, tower (W x H x D)	158 x 238 x 397		190 x 335 x 415		
Weight UPS, tower	12.1kg	13.4kg	15kg	20.3kg	28.5kg
Dimensions UPS, rack-tower (W x H x D)	438 x 88 (2U) x 412		438 x 88 (2U) x 512		
Weight UPS, rack-tower	11.6kg	14.1kg	15.5kg	19.5kg	27.5kg
Dimensions battery pack, tower (W x H x D)	158 x 238 x 397		190 x 335 x 415		
Weight, battery pack, tower	-	19.8kg	19.8kg	30.0kg	39.0kg
Dimensions battery pack, rack-tower (W x H x D)	438 x 88 (2U) x 412		438 x 88 (2U) x 512		
Weight, battery pack, rack-tower	-	21.5kg	21.5kg	29.0kg	41.2kg
AMBIENT CONDITIONS					
Operating temperature	0 - 40°C				
Rel. air humidity	20 - 90%				
Operating noise, max.	<50dB				
MTBF at 25°C (except battery)	>50,000 hours				
PACKAGE CONTENTS					
19" mounting bracket (left and right), tower-rack only	2				
Feet for tower mounting (sets), rack-tower only	2				
Extension for feet for tower fitting, only tower-rack battery pack	2				
USB interface cable	1				
10A power extension cable	2	3	3	4	4
16A mains cable	1				
Battery cable, only battery pack	1				
Quick start guide	1				
CERTIFICATION, WARRANTY					
Classification	VFI-SS-111 (EN62040-3)				
Safety	EN62040-1				
EMC, Performance	EN62040-2				
Approval	CE				
Protection class	IP20				
Warranty	2 years incl. battery				