

The redundant UPS for maximum safety

XANTO Serie

6,000 - 20,000VA

NEW!

DPT
DYNAMIC
POWER
TECHNOLOGY



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 consumers 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 load 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.

The proven **redundancy mode** is also a standard feature of the new XANTO models. The redundancy degree of safety has been improved for the 6000 and 10000VA models: As of now, up to three UPS systems may work together in parallel. In addition, the new XANTO provides up to **34% more autonomy time** than its predecessor model. The low operating costs due to its up to 98% **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 purchase 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 6000 WATT

CONVENTIONAL UPS SYSTEM:

10.000 VA / 6000 watt, 80% efficiency → Power loss = 20%
 6000 watt x 20% power loss = 1200 watt power loss
 1200 watt power loss x 0.3 EUR/kWh = EUR 3353.60 heating costs / year

MODERN XANTO 6000 WITH DYNAMIC POWER TECHNOLOGY:

6000VA / 6000 watt, 91% efficiency → Power loss = 9%
 6000 watt x 9% power loss = 540 watt power loss
 540 watt power loss x 0.3 EUR/kWh = EUR 1419.12 heating costs / year

	Heating costs	Purchase costs (EVP), pricing 2017
Conventional UPS, 10000VA	EUR 3353.60 / year	EUR 8092.00
Modern XANTO 6000 with DPT	EUR 1419.12 / year	EUR 1560.09
SAVING	= EUR 1934.48 / year	= EUR 3953.18

DPT
 DYNAMIC
 POWER
 TECHNOLOGY



- the UPS professional league

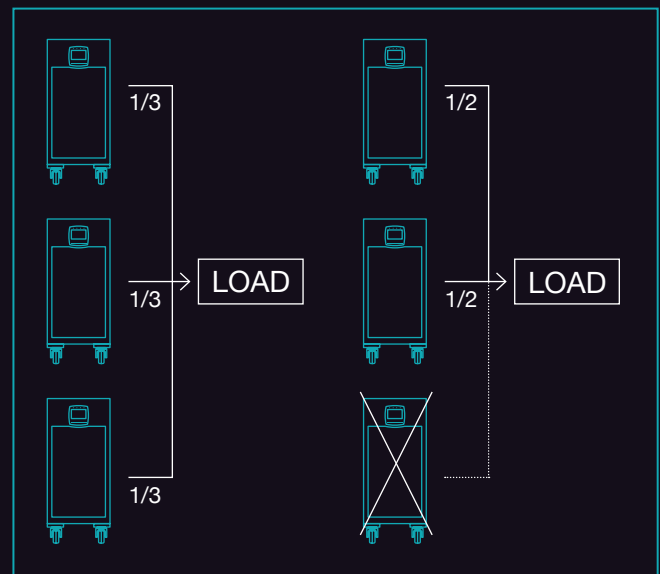
STANDARD REDUNDANCY FOR TRIPLE SECURITY

Triple security with redundancy or a power increase of up to 60,000VA are possible with the standard parallel function of XANTO. It suffices to interconnect the required number of UPS systems. No additional hardware or programming is required. No additional costs arise. For all XANTO with 6,000VA or higher up to three UPS system can be connected in parallel.



Example: Redundancy operation of three XANTO 6000

A load sharing takes place in redundancy operation as long as the supply voltage is available. All XANTO 6,000 are hereby loaded with maximum 1/3 of their nominal capacity. If one of the XANTO 6,000 fails, the two remaining XANTO take over directly and without any interruption.



FLEXIBLE INSTALLATION

The innovative device class of XANTO offers unlimited possibilities for mixing and matching variants: XANTO 6,000 – 10,000 is available in flexible **versatile rack-tower design** with only 4 U. It 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.



Example: Increase in performance

To increase performance, up to three XANTO can also be connected in parallel. This function is often used when it is planned to expand a system at a later date. As with redundancy operation, all UPS systems initially run with a load sharing. If the power output exceeds the limit value of each separate UPS system, XANTO automatically switches to redundancy mode to increase the performance.

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 four additional battery pack can now be connected subsequently to a XANTO. With XANTO 10000 3/1, for example, this enables a typical autonomy time of more than 186 minutes to be achieved. This corresponds to more than double the predecessor model.

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.

– The ultimate UPS safety concept

The Top 9: Features

- 6,000 – 20,000VA, double conversion technology
- Highest safety level (VFI-SS-111) and perfect sinewave output voltage
- Parallel operation as standard: Redundancy or performance-increase up to 60,000VA
- Trend-setting DYNAMIC POWER TECHNOLOGY for more wattage
- 98% efficiency: Lower operating costs due to high energy efficiency
- Scalable autonomy time of up to 186 minutes
- Flexible versatile rack-tower design: 6,000 and 10,000VA with only 4 U
- Standard maintenance bypass: Maximum comfort and no downtime*
- 2 years warranty incl. battery and 24h advanced replacement with new device



TECHNICAL DATA FOR XANTO SERIES

MODEL	XANTO 6000	XANTO 10000	XANTO 10000 3/1	XANTO 20000 3/1
UPS item number (tower / rack-tower)	X6000	X10000	X1000031	X2000031
Battery pack item no. (tower / rack-tower)	X6000BP	X10000BP	X1000031BP	X1000031BP
NOMINAL CAPACITY				
Power	6000VA / W	10000VA / W	10000VA / W	20000VA / W
Power at >1BP	4800W	8000W	9000W	18000W
Technology	Double converter technology			
INPUT				
Nominal voltage	230V			400V
Voltage tolerance normal operation at 50% load	110 - 300V			110 - 300V (L-N)
Voltage tolerance normal operation at 100% load	176 - 300V			176 - 276V (L-N)
Frequency		50 / 60Hz (automatic detection)		
Max. input current	29,0A	47,5A	3x 24,9A	3x 49,8A
Cold start		Yes		
Input connector		Terminal strip		
OUTPUT				
Nominal voltage, tolerance battery operation		230V +/-1%		
Voltage adjustable to		208 / 220 / 230 / 240V (20% power reduction at 208V)		
Output frequency, normal operation		50 / 60Hz +/-4Hz		
Output frequency, battery operation		50 / 60Hz +/-0.1Hz		
Wave form		Sine		
Overload behaviour, normal operation	<110% load	Alarm, Bypass/Standby after 10 min.		
	110 - 130% load	Alarm, Bypass/Standby after 1 min.		
	>130% load	Alarm, Bypass/Standby after 1s		
Overload behaviour, battery mode	<110% load	Alarm, Bypass/Standby after 30 seconds		
	110 - 130% load	Alarm, Bypass/Standby after 10 seconds		
	>130% load	Alarm, Bypass/Standby after 1s		
Efficiency, normal operation		>94%		>92%
Efficiency, high-efficiency mode		>98%		>97%
Efficiency, battery mode		>91%		
Power loss, max.	600W	1000W	1440W	2880W
Output current, max.	41A	68A	68A	136A
Output sockets	Terminal strip	Terminal strip	Terminal strip 2x IEC320 C13	Terminal strip
BATTERY				
Type and quantity, UPS	-	-	20x 12V / 9Ah	-
Type and quantity, battery pack	16x 12V / 7Ah	16x 12V / 9Ah	2x 20x 12V / 9Ah	2x 20x 12V / 9Ah
Nominal voltage	192V	192V	240V	240V
Charging voltage		218.4V		273V
Charge current	1A	1A	1A	2A
Charging time to 90% capacity internal battery / first BP			<4 hours	
Charging time to 90% capacity [+nBP(s): 1 / 2 / 3 / 4 / 5]	- / 7 / 10.5 / 14 / 17.5	- / 9 / 13.5 / 18 / 22.5	13.5 / 22.5 / 31.5 / 40.5 / -	- / 9 / 13.5 / 18 / -
TYP. AUTONOMY TIMES AT 50 AND 100% LOAD AND PF=0.7				
Standard (UPS internal battery)	-	-	15 / 5	-
plus 1 battery pack	17 / 6	12 / 4	63 / 26	14 / 4
plus 2 battery packs	46 / 18	29 / 12	119 / 53	39 / 15
plus 3 battery packs	72 / 30	52 / 22	159 / 77	60 / 27
plus 4 battery packs	106 / 47	71 / 30	186 / 104	85 / 42
plus 5 battery packs	139 / 58	90 / 44	-	-
SPECIAL FUNCTIONS				
Redundancy and parallel mode, max. number			Yes, 3	
Frequency converter mode			Yes	
Switchable output sockets				Yes
INTERFACES, SOFTWARE				
USB interface			Yes	
RS-232 interface			Yes	
Interface for parallel mode			Yes	
SNMP slot			Yes	
Emergency-off			Yes	
Network management card, basic		optional (order no. DW7SNMP30)		opt. DW7SNMP20
Network management card, professional		optional (order no. DW5SNMP30)		opt. DW5SNMP20
AS400-/relay card		optional (order no. DWAS400DC)		-
DIMENSIONS, WEIGHT				
Dimensions UPS (W x H x D)	438 x 88 (2U) x 610	438 x 88 (2U) x 610	250 x 576 x 592	250 x 576 x 592
Weight UPS	17kg	20kg	105kg	50kg
Dimensions of battery pack (W x H x D)	438 x 88 (2U) x 737	438 x 88 (2U) x 737		250 x 576 x 592
Weight, battery pack	47kg	53kg		125kg
AMBIENT CONDITIONS				
Operating temperature			0 - 40°C	
Rel. air humidity			0 - 95%	
Operating noise, max.	<55dB	<58dB	<58dB	<69dB
MTBF at 25°C (except battery)	>47,000 hours		>45,000 hours	
PACKAGE CONTENTS				
19" mounting bracket (left and right), only X6000, X10000	2			-
Feet for tower mounting (sets), only X6000 and X10000	2			-
USB interface cable			1	
Parallel cable			1	
Synchronisation cable (share current)			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			IP21	
Warranty			2 years incl. battery	