

The UPS for the highest security in industry and data centres

XANTO S-Serie

700 - 3,000VA



Perfect: The ultimate protection against blackout and data loss

The new **XANTO S** is the result of the consistent further development of proven ONLINE UPS concepts. The premium class UPS protects services, switchgear assemblies, IT, and sensitive applications against power failures and data loss.

The **doubleconversion technology** of XANTO S results in a complete decoupling of the consumer from the power

mains. Through a serial connection of the rectifier and inverter, a new, constant output voltage and frequency are always generated. Extreme voltage fluctuations, peak voltage, and harmonic waves thus do not damage the supplied devices. In case of a power failure, a smooth, **guaranteed uninterrupted** transition is possible thanks to an ultrafast, electronic thyristor switch.

Reliable: Our customers trust XANTO S



Reliability is absolutely vital:

Well-known automobile and plant manufacturers secure their computers and control systems used in development and production with XANTO S. They trust the proven technology and thus increase the availability of their plants and systems.



Time is money:

XANTO S secures logistics systems. Around the clock and worldwide. Regardless of whether it's the crane for unloading ships or fully automated order-picking. XANTO S protects against data and productivity loss.



Safety has highest priority:

In data centres, XANTO S protects against blackouts and data loss.

Thanks to the SNMP adapter or DataWatch software, all applications are properly ended and the entire system is independently shut down, across all operating systems and sites.



– the ultimate UPS security concept.

Striking benefits:

- ▲ **700 – 3,000VA, doubleconversion technology, highest security level (VFI-SS-111)**
- ▲ **91% efficiency:** cost-saving operation through higher energy efficiency
- ▲ **Power factor 0.9:** more wattage for less money
- ▲ **Additional battery packs:** scalable autonomy time
- ▲ **Hot-swap battery:** battery change during operation
- ▲ **Expanded battery management (EBM+):** 6-year battery life expectancy
- ▲ **Sequential load breaking:** maximum autonomy
- ▲ **Emergency off, programmable signal inputs and outputs**
- ▲ **2-year guarantee including battery and free exchange in advance**



The figure shows the entire XANTO S series

EUR 400
savings per year

ARGUMENT 1: EUR 400 saved due to higher energy efficiency

Due to the considerably better **efficiency of 91%** in the case of XANTO S, the power loss is reduced considerably and thus guarantees higher energy efficiency. During the operation of a XANTO S 3,000, the reduced development of heat resulted in power cost savings of about **EUR 400** a year! Additional potential savings are realised due to the lack of installation and operation of an air conditioning system.

And for everyone who wants to save even more: in **Eco mode**, XANTO S has an **efficiency of 94%**. Eco mode can be activated automatically during uncritical times such as on the weekend or at night.



Sample invoice

Conventional UPS: Efficiency = 83% >> 17% power loss

17% of 2,700W = 459W

459W x 24 hours x 365 days = 4,020kWh

4,020kWh x 0.22 EUR / kWh = **EUR 884** heat costs a year

ONLINE XANTO S 3,000: Efficiency = 91% >> 9% power loss

9% of 2,700W = 243W

243W x 24 hours x 365 days = 2,128kWh

2,128kWh x 0.22 EUR / kWh = **EUR 468** heat costs a year

Cost advantage of XANTO S: EUR 416 a year

EUR 830*
savings

ARGUMENT 2: More active power saves EUR 830*



25% more active power with an almost unchanged design is the result of the new hardware design of XANTO S. Thanks to a **power factor of 0.9**, XANTO S 3,000, for example, thus has an active power of 2,700 W. In this way, more devices can be supplied than in the case of the conventional UPS systems of other manufacturers.

Sample invoice

APC Smart UPS RT 3,000	2,100W	EUR 1,850 (list price)
+ APC Smart UPS RT 1,000	+ 700W	+ EUR 729 (list price)
Sum for APC Smart UPS RT	2,800W	EUR 2,579 (list price)

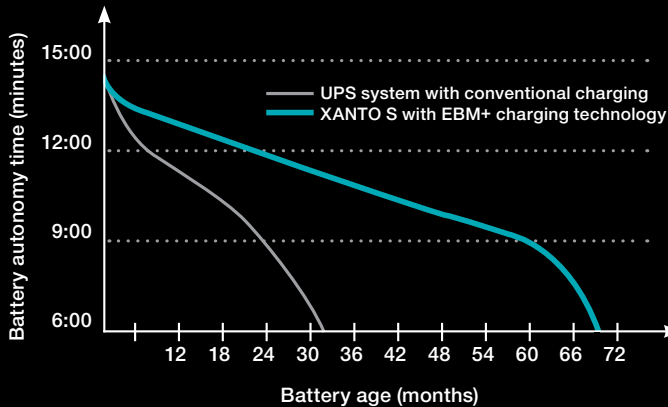
ONLINE XANTO S 3,000	2,700W	EUR 1,775 (list price)
----------------------	--------	------------------------

Cost advantage of XANTO S: EUR 804 (list price)

– 5 arguments to save hard cash.

EUR 410*
savings

ARGUMENT 3: Double battery life expectancy saves EUR 410*



EBM+ doubles the service life expectancy of the battery.

With the conventional UPS systems of other manufacturers, the batteries must be changed after 36 months. Thanks to EBM+, the battery does not have to be changed for 72 months in the case of XANTO S. With an APC Smart UPS RT 3,000, you thus save a complete battery set for a value of EUR 419.

In addition, **EBM+** reduces the recharging period to only 3 hours. This is important in case of back-to-back power failures within a very brief period of time.

By the way: standard commercial storage batteries are installed into all ONLINE UPS systems.

ARGUMENT 4: Scalable autonomy time

With **external battery packs**, XANTO S can adapt the running time to your specific requirements. The shutdown of large networks or the backup of comprehensive data stocks thus no longer represents a security risk.

Additional battery packs can also be connected to a XANTO S (from model S 1000) at a later point in time.



ARGUMENT 5: Sequential load breaking for maximum autonomy

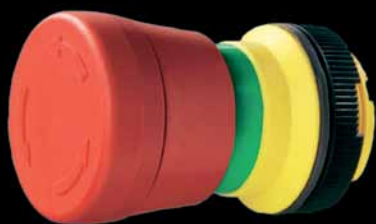


With the switchable output sockets, consumers can also be switched off without an interface or software in the case of XANTO S 700 – 3,000 as well.

In this way, the load of XANTO S can be reduced during battery mode and the running time for the remaining critical consumers is extended.

For the separate control system, the output sockets of XANTO S are divided into two groups.

Safe: Including an emergency off function



To prevent the worst from happening to people, materials, and machines, the UPS output of XANTO S is switched off immediately when the emergency off is activated. For this purpose, only the standard wire jumpers of the EPO interface must be removed and exchanged for a separate DIN switch.

For safety reasons, the UPS restart of XANTO S cannot take place until the external emergency stop switch has been reset manually.

In addition, XANTO S has a programmable signal input and three floating signal outputs. For the programming of a signal input, six predefined functions are available, for example, *delayed deactivation*.

The floating signal outputs indicate the operating states *normal mode*, *bypass mode*, *battery mode*, and *battery voltage low*.

The programming of the signal inputs and outputs takes place in a software independent manner via the display of XANTO S.



Flexible: SNMP adapter and DataWatch software



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

Thanks to the high-performance 32-bit RISC processor,

the SNMP adapter supports all functions like the **automatic data backup** with the **close of running applications** and the **orderly shutdown** of the entire system. In addition, an extensive **messaging system**, freely **programmable routines**, **timed tests**, and **event logging** are obligatory.

The SNMP adapter has a **free snap-in for HP Openview Windows** and is compatible with Ipswitch WHATS UP 6, HP/Compaq Insightmanager, IBM Netview, Tivoli, Castle Rock, and many more. In addition, a **temperature** or **temperature/humidity sensor** can be directly connected to the "professional" version (Art. No. DW5SNMP30).



The DataWatch software is part of the standard scope of delivery of the **XANTO S series**. It constantly communicates via the RS-232 or USB interface with XANTO S and

monitors all processes. DataWatch works in the background and is the comprehensive software solution for the shutdown and management of the PC or service system, as well as the monitoring of XANTO S and the power mains.

DataWatch and the SNMP adapter support all commercial operating systems. They are also compatible with virtual operating systems like VMware vSphere, Citrix Xen-Server, and Microsoft Hyper-V.

DataWatch and SNMP adapter are based on **client/server technology**. The RCCMD software agent is recommended for the shutdown of several servers connected to a UPS. In contrast with the full version of DataWatch, it works in an event-controlled manner and thus reduces unnecessary data traffic in the network.

The entire communication functions across operating systems.



Perfect: The ONLINE service

Telephone
+ 49 (89) 242 3990 - 10



Available on the
App Store

As a German supplier, ONLINE guarantees:

- Direct consulting and support
- 2-year full guarantee including battery
- Free 24-hour exchange in advance
- 14-day money-back guarantee

Our UPS Configurator gives you comprehensive support for the selection and dimensioning of the optimum UPS system under www.online-usv.de or as an app.

Even more, however, we would like to support you in person. Just call us under +49 (89) 242 3990 - 10.

Multifunctional: The equipment

Slot for optional
interface boards

Floating relay
output

Connection for addi-
tional battery packs

Emergency off interface

Separately switchable
output sockets



USB interface

RS-232 interface and
additional floating line
inputs and outputs

Temperature-
controlled fan

Line input plug

TECHNICAL DATA FOR THE XANTO S SERIES

MODEL		XANTO S 700/R		XANTO S 1000/R		XANTO S 1500/R		XANTO S 2000/R		XANTO S 3000/R	
Article number, UPS of tower (rack)		XST700 (XSR700)		XST1000 (XSR1000)		XST1500 (XSR1500)		XST2000 (XSR2000)		XST3000 (XSR3000)	
Article number, battery pack of tower (rack)				XST1000BP (XSR1000BP)		XST1500BP (XSR1500BP)		XST2000BP (XSR2000BP)		XST3000BP (XSR2000BP)	
NOMINAL POWER											
Apparent power		700VA		1000VA		1500VA		2000VA		3000VA	
Active power		630W		900W		1350W		1800W		2700W	
LINE INPUT											
Nominal voltage						230V				180 - 276V	
Voltage tolerance at 100% load at pf = 0.7				160 - 276V							
Frequency						40 - 70Hz					
Frequency tolerance						+/-3Hz					
Current strength, max.		3.0A		4.3A		7.2A		8.7A		13A	
DC start						Yes					
Line input plug		IEC320 C14		IEC320 C14		IEC320 C14		IEC320 C14		IEC320 C20	
LINE OUTPUT											
Voltage		230V (208 / 220 / 230 / 240V configurable)									
Wave form		Sinus									
Power factor/range		0.9 (0.7 ~ 1)									
Frequency		Normal mode		Battery mode		Bypass mode					
						automatic selection					
						50/60Hz +/-0.25Hz					
						50/60Hz +/-5Hz					
						+/- 2%					
						+/- 3%					
						3 : 1					
Distortion factor (THD), linear load						alarm					
Distortion factor (THD), non-linear load						after 12s in bypass mode					
Crest factor						after 2s in bypass mode					
Overload behaviour in normal mode		100%<load<102%				immediately in bypass mode					
		102%<load<130%				after 12s in bypass mode					
		130%<load<150%				after 2s in bypass mode					
		150%<load									
Overload behaviour in battery mode		100%<load<130%									
		130%<load									
Efficiency in normal mode		87%		88%		90%		90%		91%	
Efficiency in eco mode						>94%					
Output jacks		6x IEC320 C13		6x IEC320 C13		6x IEC320 C13		8x IEC320 C13 1x IEC320 C19		8x IEC320 C13 1x IEC320 C19	
BATTERY											
Type and selection of UPS, tower (rack)		2x 12V / 7Ah (3x 12V / 7Ah)		3x 12V / 7Ah (3x 12V / 7Ah)		4x 12V / 7Ah (4x 12V / 7Ah)		8x 12V / 7Ah (6x 12V / 7Ah)		8x 12V / 7Ah (6x 12V / 7Ah)	
Type and selection of battery pack, tower (rack)				6x 12V / 7Ah (6x 12V / 7Ah)		8x 12V / 7Ah (8x 12V / 7Ah)		16x 12V / 7Ah (12x 12V / 7Ah)		16x 12V / 7Ah (12x 12V / 7Ah)	
Nominal voltage, tower (rack)		24V (36V)		36V (36V)		48V (48V)		96V (72V)		96V (72V)	
Charging current strength		1.4A		1.4A		1.4A		1.7A		1.7A	
Charging time at 90% capacity						3h					
+1 BP / +2 BPs / +3 BPs / +4 BPs						9 / 15 / 21 / 27h					
AUTONOMY TIME IN MINUTES											
						50% / 100% load at pf = 0.7					
Standard (internal battery), tower (rack)		20 / 7 (29 / 12)		18 / 7 (18 / 7)		16 / 6 (16 / 6)		26 / 11 (18 / 8)		16 / 7 (11 / 5)	
Plus 1 battery pack, tower (rack)				69 / 30 (69 / 30)		63 / 27 (63 / 27)		103 / 46 (72 / 31)		62 / 26 (44 / 19)	
Plus 2 battery packs, tower (rack)				131 / 57 (131 / 57)		119 / 50 (119 / 50)		196 / 86 (136 / 58)		118 / 50 (83 / 35)	
Plus 3 battery packs, tower (rack)				198 / 87 (198 / 87)		183 / 76 (183 / 76)		297 / 131 (208 / 88)		178 / 75 (126 / 53)	
Plus 4 battery packs, tower (rack)				271 / 120 (271 / 120)		249 / 104 (249 / 104)		401 / 178 (283 / 120)		244 / 103 (172 / 72)	
SPECIAL FUNCTIONS											
Converter mode		Yes									
Switchable output sockets		Yes, 2 groups									
SOFTWARE INTERFACES											
Communication interface		RS-232 / USB / 3 floating signal outputs/floating signal input/slot for optional interface boards/emergency stop									
SNMP adapter, basic		optional (Art. No. DW7SNMP30)									
SNMP adapter, professional		optional (Art. No. DW5SNMP30)									
Relay board		optional (Art. No. PHXNOV-I)									
DataWatch software		including									
DIMENSIONS, WEIGHT											
UPS, tower (rack)		Width Height Depth Weight		160mm (438mm) 251mm (86.5mm) 370mm (445mm) 12kg (16kg)		400mm (445mm) 15kg (16kg)		400mm (445mm) 19kg (20kg)		214mm (438mm) 346mm (86.5mm) 425mm (610mm) 35kg (29kg)	
Battery pack, tower (rack)		Width Height Depth Weight		160mm (438mm) 251 mm (86.5mm) 400mm (445mm) 19kg (23kg)		160mm (438mm) 251 mm (86.5mm) 400mm (445mm) 25kg (27kg)		400mm (445mm) 49kg (41kg)		214mm (438mm) 346 mm (86.5mm) 425mm (600mm) 49kg (41kg)	
AMBIENT CONDITIONS											
Operating temperature <1500m above sea level		0°C - 40°C									
Operating temperature 1500 - 3000m		0°C - 35°C									
Storage temperature (without/with battery)		-15°C - 50°C / -15°C - 40°C									
Relative air humidity		0% - 95%									
Operating noise (min./max.)		43/51dBA		43/51dBA		43/49dBA		48/52dBA		48/52dBA	
SCOPE OF SUPPLY											
19" mounting bracket		2 pieces (only for rack)									
RS-232 interface cable		Yes									
10A low-heat devices power cord extension		2		3		3		4		4	
16A mains connecting cable		1									
DataWatch software		Yes									
Printed manual		Yes									
CERTIFICATIONS, WARRANTY											
Classification		VFI-SS-111									
Approval		CE									
Standards		IEC 62040-1-1, IEC 62040-2, IEC 62040-3, IEC 60950-1									
Class of protection		IP20									
Warranty		2 years including batteries									