

1,2,3,6,10,20 kVA single/single-phase and three/single-phase



- **HIGH POWER INTENSITY**
- **STRONGEST PERFORMANCE**
- + FLEXIBILITY
- + HIGH EFFICIENCY WITH LOW HEAT DISSIPATION
- **EXTENDABLE AUTONOMY**



Product Overview

2

AREA OF APPLICABILITY:



SERVERS
INTERNET CENTERS
INDUSTRIAL APPLICATION
EMERGENCY DEVICES*
MEDICAL DEVICES*

ZP120N UPS model is designed to deliver clean, safe and regulated power, thus protecting your equipment and data from line disturbances such as power surges, blackouts and lightning.

The **ZP120N UPS** is available the following power capacities: 1kVA to 3kVA 1/1; 6kVA - 10kVA 1/1 (single phase input and output) and 10kVA 3/1 and 20kVA 3/1 (three phase input and single phase output).

1kVA to 3kVA

HIGH POWER INTENSITY

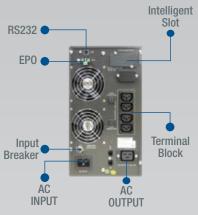
- DSP technology
- Self monitoring and fault diagnosis
- Dual communication bus
- Low output voltage distortion

STRONGEST PERFORMANCE

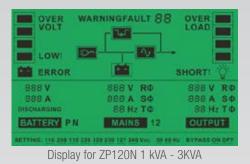
- Wide input voltage range
- 0.9 output power factor
- Input power factor correction and negligible current distortion

FLEXIBILITY

- Selectable configuration via LCD: Online, Ecomode, Frequency/ Voltage Converter mode (VCF)
- EPO connector for emergency power shutdown
- Standard external battery connector
- Easy installation



3 kVA Model



MENU: 1. OPERATION MODE

4.STATUS/ALARM CODE

- 2. MIMIC 3. SETTINGS
- 5. INPUT MEASURES6. BATTERY CAPACITY7. OUTPUT MEASURES

* Some Medical and emergency devices have specific standard, so please check them before offer/install UPS

ZP120

6kVA to 10kVA 1/1 - 3/1C



A multilanguage LCD allows to select the main functions of the UPS:

MENU: 1. INPUT DATA

- 2. OPERATING STATUS
 - 3. BATTERY INFORMATION
 - 4. LOAD INFORMATION 5. OUTPUT INFO

HIGHER PERFORMANCE

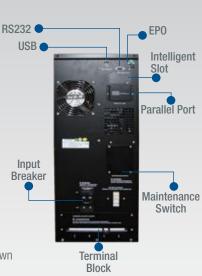
- DSP technology
- Multi-language LCD
- Log
- Dual communication bus
- Lower noise level

HIGH POWER INTENSITY

- 0,9 Output power factor
- Minimum acceptable input voltage 110 Vac

FLEXIBILITY

- Selectable configuration via LCD
- Up to 4 units may be installed in parallel
- Standard maintenance bypass
- Optional internal insulation transformer
- EPO connector for emergency power shutdown
- Standard external battery connector
- Back-feed protection



3

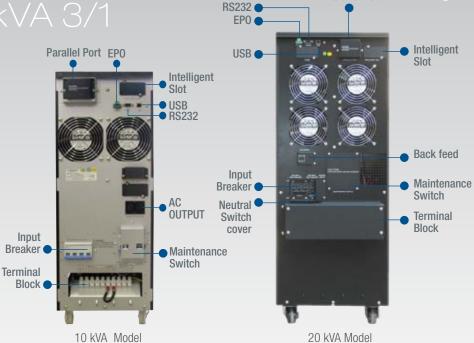
6 kVA Model

Parallel Port

10kVA to 20kVA 3/1

The 10 - 20 kVA have the same technical performance of ZP120N 6 kVA and it presents the following advantages:

- Input voltage autosensing (3ph or 1ph)
- •Large cabinet for better battery capacity
- Dual inputs with separate bypass line as standard

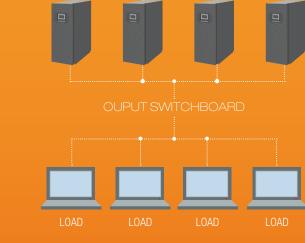


Power Management

performance, while guaranteeing more efficient uninterrupted supply .

In parallel configuration 6kVA to 20kVA ZP120N UPS makes the system

INIPLIT SWITCHROAR



ZP120N

Interface Options

- Power flow display for UPS status monitoring
- Scheduled system shutdown/restart
- Scheduled UPS tests
- Warnings notification via Email/Pager
- Warnings notification via Broadcast
- Security password protection
- Remote Monitoring / Control via LAN
- Multi-language versions: English, German, French, Italian, Spanish, Portuguese and Chinese
- Selectable user interface
- UPS parameters setting
- Recorded log analysis
- The SNMP card allows UPS management across LAN using the main TCP/IP network communication protocols



AS 400 RELAY CARD

MODBUS INTERFACE

SNMP CARD

Communication Solutions

Win Power CD comes together with UPS, which can also be downloaded from the Internet.

With this software is possible to:

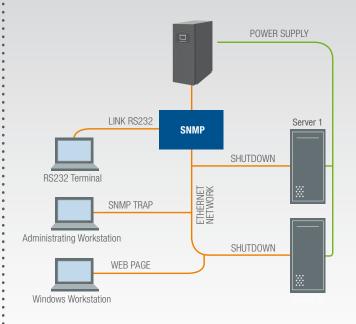
- Remotely monitor and control the UPS
- Send alarm signals to the mobile phone
- Perform automatic shutdown of PC / server
- Schedule UPS self-test programs

This software provides complete protection to your system during power failure.

It supports most of the operating systems including Windows, Linux, 7/8/9 Sun Solaris, FreeBSD, IBM Aix 4.3x, 5.1x, and HP-UX 11.x. In addition to this, to increase the benefits to our customers, we have released a version for MAC downloadable from the Internet.



Direct connection with Ethernet Network



Green Technology

ZP120N series guarantees high performance and a high efficiency with a low heat dissipation.

Extremely flexible to use, the ZP120N are designed with high power density and its standard configuration has already on board installed batteries ready for use.

Moreover ZP120N has battery terminal for connection of external battery cabinet for longer backup time.

They could be use in several modes like: Online mode and ecomode frequency converter.

Efficiency over 96% in ecomode function.

Zero impact on the mains is guaranteed by the PFC input which ensures THDi <5%, PF \geq 0.99.

Higher active power available given by 0,9 output power factor.

All the products compliant with the European directives about low voltage and electromagnetical compatibility.

Technical Specifications

MODEL	ZP120N-1K	ZP120N-1K-KS*	ZP120N-2K	ZP120N-2K-KS*	ZP120N-3K	ZP120N-3K-KS*	
Power Rating	1000VA/900W 2000VA/1800W 3000VA/2700W					4/2700W	
	INPUT						
Rated Voltage	220Vac/230Vac/240Vac						
Voltage Tolerance	110Vac-300Vac						
Voltage Range - Line Low Transfer	176Vac/165Vac/110Vac (± 3%) based on load percentage 100%/75%/50%						
Voltage Range - Line High Transfer	300Vac (± 3%)						
Frequency Range	45-55Hz / 54-66Hz						
THDi %	<5% with full load						
Power Factor	≥0.99 (I/P:220V, FULL RCD LOAD)						
			OUT	PUT			
Rated Voltage	200VAC**/208VAC**/220VAC/230VAC/240VAC						
Voltage Regulation	± 2 %						
Rated Frequency AC Mode	50/60 Hz ± 0,2 %						
Crest Ratio	3:1						
Harmonic Distortion	< 3% THD, linear load						
Output Waveform	Pure Sinewave						
Overload Capability	105%-110%: 1 min; 110%-125%: 30 sec ; 125%-150%: 10 Sec; >150%: 1 sec						
Parallel	Up to 4						
Power Factor	0.9						
			BATTE	ERIES			
Туре		Sea	aled lead acid bat	tery, maintenance fr	ree		
Rating	12V/7Ah	According to	12V/7Ah	According to capacity of external batteries	12V/7Ah	According to capacity of external batteries	
Number of batteries	3	capacity of external	8		8		
Back-up Time (typical load)***	>10 minutes	batteries	>18 minutes		>10 minutes		
DC Voltage	36Vdc 96Vdc 96Vdc			SVdc			
Charging Time	< 5 hours						
			GENERAL CHA	RACTERISTICS			
Transfer Time (Inverter to bypass)			0	ms			
Efficiency (online mode)	92%		92%		92%		
Dimensions WxHxD (mm)	145x2	145x220x400		192x347x460		192x347x460	
Net Weight (kg)	13	7	31	13	31	13	
Operating Temperature	0°C ~ 40 °C						
Noise Level (at 1m)	< 50dB < 55dB						
Humidity Tolerance	0-95% (no condensing)						
Interface standard via Smart USB	WinPower Software supports: Windows 95/98/NT/2000/XP/ME, Linux, Sun Solaris, IBM Aix, FreeBSD, HP-UX, and MAC						
Interface for Intelligent Slot	SNMP / RS485 / AS400 Card/ ModBus						
Compliance	 European Directives: L V 2006/95/CE Low voltage directive; EMC 2004/108/EC Electromagnetic compatibility directive Standards: Safety IEC EN 62040-1; EMC IEC EN 62040-2 C2 Classification according to IEC 62040-3 (Voltage Frequency Independent) VFI - SS - 111 						

 * ks versions are supplied with extra battery charger

** The autonomy time are calculated at 75% rated load as PF=0.9.

Note: product specifications are subject to change without further notice

Technical Specifications

MODEL	ZP120N-6K	ZP120N-6K-KS*	ZP120N-10K-11	ZP120N -10K-11-KS*		
Power Rating	6000\	/A/5400W	10000	VA/9000W		
	INPUT					
Rated Voltage	220Vac/230Vac/240Vac					
Voltage Tolerance	110Vac-276Vac					
Voltage Range - Line Low Transfer	176Vac/110Vac (± 3%) based on load percentage 100%/50%					
Voltage Range - Line High Transfer	276Vac (± 3%)					
Frequency Range	45-55Hz / 54-66Hz					
THDi %	<5% with full load					
Power Factor	≥0.99 (I/P:220V, FULL RCD LOAD)					
		OUTF	PUT			
Rated Voltage	200VAC**/208VAC**/220VAC/230VAC/240VAC					
Voltage Regulation	± 1 %					
Rated Frequency AC Mode	50/60 Hz ± 0,2 %					
Crest Ratio	3:1					
Harmonic Distortion	< 2% THD, linear load					
Output Waveform	Pure Sinewave					
Overload Capability	100%-110%: 5 min ; 110%-130%: 1 min ; 130%-150%: 10 sec ; >150%: 2 sec					
Parallel	Up to 4					
Power Factor	0.9					
		BATTE	RIES			
Туре		Sealed lead acid batte	ery, maintenance free			
Rating	12V/7Ah		12V/9Ah	According to capacity		
Number of batteries	20	According to capacity of external batteries	20			
Back-up Time (typical load)***	> 10 minutes		>10 minutes			
DC Voltage	240Vdc					
Charging Time		< 5 h	ours			
	GENERAL CHARACTERISTICS					
Transfer Time (Inverter to bypass)	0 ms					
Efficiency (online mode)	>92%					
Dimensions WxHxD (mm)	260x560x708					
Net Weight (kg)	86	34	92	37		
Operating Temperature		0°C ~	45 °C			
Noise Level (at 1m)	<	50dB	<55dB			
Humidity tolerance	0-95% (no condensing)					
Interface standard via Smart USB	WinPower Software supports: Windows 95/98/NT/2000/XP/ME, Linux, Sun Solaris, IBM Aix, FreeBSD HP-UX, and MAC					
Interface for Intelligent Slot	SNMP / RS485 / AS400 Card/ ModBus					
Compliance	 European Directives: L V 2006/95/CE Low voltage directive; EMC 2004/108/EC Electromagnetic compatibility directive Standards: Safety IEC EN 62040-1; EMC IEC EN 62040-2 C3 Classification according to IEC 62040-3 (Voltage Frequency Independent) VFI - SS - 111 					

* ks versions are supplied with extra battery charger

** Derate to 90% with 208Vac output voltage. *** The autonomy time are calculated at 75% rated load as PF=0.9.

Note: product specifications are subject to change without further notice

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Technical Specifications

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MODE		ZP120N-10K-31C	ZP120N-10K-31C-KS*	ZP120N-10K-31	ZP120N-10K-31-KS*	ZP120N-20K-31	ZP120N-20K-31-KS*	
Power	Rating		10000V	A/9000W		20000VA	/18000W	
				INP	UT			
Rated Voltage		220VAC/230VAC/240VAC 1ph or 380/400/415 3ph (autosensing)				220VAC/230VAC/240VAC 1ph or 380/400/415 3ph (autosen- sing)		
	Voltage Tolerance	110Vac-176Vac(*) -276Vac (±1%) Phase				110Vac-276Vac		
1 phase	Voltage Range - Line Low Transfer				176Vac/110Vac (± 3%) based on load percentage 100%/50%			
	Voltage Range - Line High Transfer				276Vac (± 3%)			
3 phase	Voltage Tolerance	190Vac-304Vac(**) -478Vac (±1%) 3 Phase			190Vac-478Vac			
	Voltage Range - Line Low Transfer				305Vac/190Vac (± 3%) based on load percentage 100%/50%			
	Voltage Range - Line High Transfer	478Vac					(± 3%)	
Freaue	ncy Range	45-55Hz / 54-66Hz						
THDi %	, ,	<5% with full load						
Power				,.				
Fower		≥0.99 (FULL LOAD)						
		OUTPUT						
Rated \	5	200VAC**/208VAC**/220VAC/230VAC/240VAC						
Voltage	Regulation	± 1 %						
Rated I	Frequency AC Mode	50/60 Hz \pm 0,2 %						
Crest F	latio	3:1						
Harmo	nic Distortion	< 2% THD, linear load						
Output	Waveform	Pure Sinewave						
Overloa	nd Capability	100%-110%: 5 min; 110%-130%: 1 min ; 130%-150%: 10 sec; >150%: 2 sec					ec	
Power	Factor	0.9						
Paralle				Up	to 4			
				BATTE	RIES			
Туре			Se	ealed lead acid batt		free		
Rating		12V/9Ah	00	12V/7Ah		12V/7Ah		
	ve of leattories		According to		According to		According to	
NUMDE	rs of batteries	20	capacity of external	24+24 optional	capacity of external	24+24 optional	capacity of external	
Back-u	p Time (typical load)***	> 10 minutes	batteries	> 6 minutes + 6 minutes optional	batteries	> 6 minutes + 6 minutes optional	batteries	
DC Vol	tage	240	Vdc	288	Vdc	288Vdc		
Chargir	ng Time			< 5 k	nours			
				GENERAL CHAP	RACTERISTICS			
Transfei	Time (Inverter to bypass)			1 0	ms			
Efficien	cy (online mode)	>92% >93%		>92%				
Dimens	sions WxHxD (mm)		260x7	60x708x560		350x89	0x650	
Net We	ight (kg)	93 38 175		160	53			
Operat	ing Temperature	0°C ~ 45 °C						
Noise L	_evel (at 1m)	<55dB <55dB <55dB		<55dB				
Humidi	ty Tolerance	0-95% (no condensing)						
Interfac	e standard via Smart USB	WinPower Software supports: Windows 95/98/NT/2000/XP/ME, Linux, Sun Solaris, IBM Aix, FreeBSD, HP-UX, and MAC						
Interfac	e for Intelligent Slot	SNMP / RS485 / AS400 Card/ ModBus						
Complia	ance	Standards: Safety	IEC EN 62040-1; E	Low voltage directive MC IEC EN 62040-2 -3 (Voltage Frequency	C3	C Electromagnetic cor SS - 111	mpatibility directive	

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** Derate to 90% with 208Vac output voltage.
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G-Tec Service

G-TEC Service, our technical assistance facility, employs highly trained engineers able to provide a reliable sales assistance service.

A dedicated **CALL CENTRE** for connection to the G-TEC Service organisation. G-TEC Service personnel are always on hand and happy to provide advice and assistance regarding the installation, maintenance, fault finding and repair of UPS equipment.

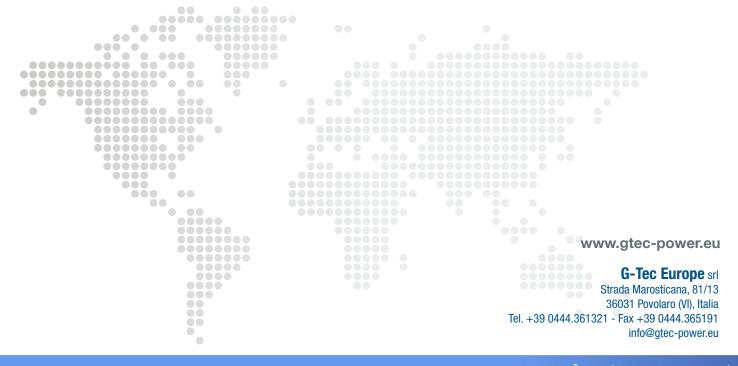
G-TEC Service can provide assistance during commissioning and start-up of the UPS equipment on-site with additional training of site personnel during handover.

MAINTENANCE CONTRACTS can be provided by G-TEC Service Partners to minimise response times and reduce the cost of repairs. Contracts range from periodic inspections to comprehensive cover including labour and materials.

FAST & READY: fast repair on site is guaranteed thanks to the use of state-of-theart UPS technology and the professionalism of the G-TEC Service personnel and Authorised Assistance Centres.

G-TEC Service guarantees that failed parts are replaced with original ones and are tested and updated in order to maintain the safety, reliability and operating characteristics of the UPS system.

www.gtec-power.eu



شركت مهندسين مشاور آرا تجهيز سيستم

نشانی: تهران، خیابان آپادانا، پلاک ۱۹۴ تلُفن: ۸۸۲۵٬۲۹۳ ، ۸۸۷۴۲۰۷۴ ، ۸۸۷۴۲۰۷۴ - فکس: ۸۸۷۵٬۳۹۷ - فکس: ۸۸۷۵٬۳۹۷ No. 194, St. Apadana, Tehran-Iran Tel: 88761693 , 88742074 , 88457223 Fax: 88457195 , 88750397 www.atsys.ir www.gtec-power.eu info@atsys.ir



