



ZP120N

$\quad \text{online} \, \mathsf{UPS} \quad$

1,2,3,6,10,20 kVA

- LOCAL AREA NETWORKS (LAN)
- SERVERS
- DATA CENTERS

- INTERNET CENTERS (ISP/ASP/POP)
- INDUSTRIAL PLCS
- EMERGENCY DEVICES (LIGHTS, ALARM)
- ELECTROMEDICAL DEVICES
- TELECOMMUNICATION DEVICES
- INDUSTRIAL APPLICATION

7P120N series

G-TEC is proud to introduce the upgraded superior ZP120N UPS that can deliver clean, safe and regulated power supply to protect your critical mission equipment, so as to safeguard your valuable equipment and critical data from any abnormal power disturbances, such as surges, blackouts and lightning strikes. **ZP120N UPS** power capacity is available from 1kVA to 3kVA 1/1 (1/1 stands for single phase input and single phase output); from 6kVA to **10kVA 1/1** and **from 10kVA to 20kVA 3/1** (3/1 stands for three phase input and single phase output).

COMMON FEATURES:

- Strongest performance
- High Power Density
- Flexible Settings
- Internal components designed for stressing environment
- Highest efficiency with low heating dissipation
- Long run time Model without internal batteries and dedicated super charger







1-3kVA 1/1

6-10kVA 1/1

1kVA to 3kVA 1/1

10-20kVA 1/1-3/1

STRONGEST PERFORMANCE

- DSP technology fully controlled
- Self monitoring and fault diagnosis
- Dual internal communications bus
- Lowest output voltage distortion

USB (Intelligent EPO (Slot Ext Battery AC Output Breaker (AC Output AC Input R.145

HIGH POWER DENSITY

- Wide input voltage range
- 0,8 output power factor
- Input power factor correction and lowest current distortion

FLEXIBLE SETTINGS

- Selectable configuration via LCD: online, ecomode, frequency/voltage converter mode (CVCF)
- EPO connector for remote emergency power off
- Standard external battery connector
- Simplified installation



- MENU: OPERATION MODE
 - **MIMIC**
 - **SETTINGS**
 - STATUS/ALARM CODE
- INPUT MEASURES
- **BATTERY CAPACITY**
- OUTPUT MEASURES

STRONGEST PERFORMANCE

- DSP technology fully controlled
- LCD display multi language
- Real time event logs
- Dual internal communications bus
- Reduced audible noise

HIGH POWER DENSITY

- 0.9 output power factor
- Minimum acceptable input voltage 110 Vac

FLEXIBLE SETTINGS • Soloetable configura

- Selectable configuration via LCD: online, parallel, ecomode and CVCF
- Parallelable up to 4 units
- Standard mechanical maintenance bypass
- Optional internal insulation transformer
- EPO connector for remote emergency power off
- Standard external battery connector
- Back-feed protection





MENU:

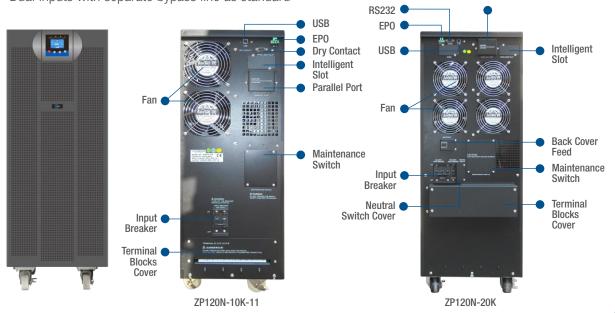
- INPUT INFORMATION
- OPERATING STATUS
- BATTERY INFORMATION
- LOAD INFORMATION
- OUTPUT INFORMATION

10kVA to 20kVA 3/1

Parallel Port

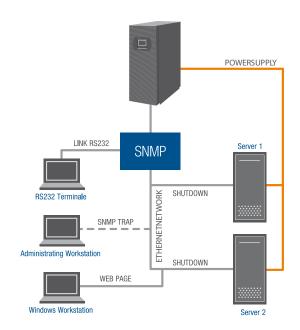
The 10-20kVA threephase input and single phase output is an upgrade of the ZP120N-10K-11. They have the same technical performance with the following advantages:

- Input voltage autosensing (3ph or 1ph)
- Large cabinet suitable for more internal battery strings
- Dual inputs with separate bypass line as standard



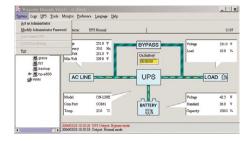
OUTPUT SWITCHBOARD OUTPUT SWITCHBOARD LOAD LOAD LOAD LOAD ZP120N 6kVA to 20kVA UPS in parallel configuration to meet most demanding power requirement. Increase power availability and flexibility. Parallel Redundancy feature provides economic power solution for system integration. Furthermore, parallel redundancy feature equally shares the load to maximize UPS performance, and more

Direct Connection with Ethernet Network



Communication and Power Management Solutions

WinPower CD is packed with UPS, and can also be downloaded from the internet. It has the function to remote monitor and control UPS, warning notifications through broadcast and mobile phone, multi-shutdown PCs, and schedule UPS self-test. This unique software provides complete power protection for computer system during power failure. The software supports lots of O/S including Windows family, Linux, Sun Solaris 7/8/9, FreeBSD, IBM Aix 4.3x, 5.1x, and HP-UX 11.x. More than that, to offer increased benefits for our customers, we have also released USB version MAC version on the internet.



secure UPS continuous operation.

INTERFACE OPTION:







- Power flow display for monitoring UPS status
- Scheduled system shutdown/restart
- Scheduled UPS test
- Warning notification via E-mail / Pager
- Warning notification via Broadcast
- Password security protection
- Remote Monitor / Control via LAN

- Multi-language versions: English, Germanic, French, Italian, Spanish, Portuguese and Chinese
- Selectable User Interface (Background)
- UPS Parameter setting
- Record logs for analysis
- SNMP Network card allows management of UPS across LAN using any of the main network communication protocols – TCP/IP and network interface via SNMP.

ZP120N

Technical Specification						
Model	ZP120N-1K	ZP120N-1K-KS*	ZP120N-2K	ZP120N-2K-KS*	ZP120N-3K	ZP120N-3K-KS*
Power Rating	1000VA	\ \\800W	2000VA	/1600W	3000VA	/2400W
	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)					
	OUTPUT					
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					
Power factor	0,8					
			BATTEF			
Туре				ery, maintena		T
Rating	12V/7Ah	Depend on the	12V/7Ah	Depend on the	12V/7Ah	Depend on the
Numbers of batteries	3	capacity	8	capacity	8	capacity
Back-up Time (typical load)	>10 minutes	of external batteries	>18 minutes	of external batteries	>10 minutes	of external batteries
DC Voltage	36Vdc 96Vdc		√dc	96Vdc		
Charging time	< 5 hours					
		GEN	ERAL CHAR	ACTERISTIC	S	
Transfer Time (Inverter to bypass)	0 ms					
Efficiency (online mode)	88%		88%		88%	
Dimensions WxHxD (mm)	145x220x400		192x347x460		192x347x460	
Net Weight (kg)	13	7	31	13	31	13
Operating Temperature			0°C ~	45 °C		
Noise Level (@ 1m)	50dB					
Humidity	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	IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 62040-1-1, IEC 62040-2, IEC 60950-1					

^{*} KS version are provided with battery extra charger
** Derate to 90% with 208Vac output voltage. Derate to 80% with 200Vac output voltage
Note: product specifications are subject to change without further notice.



	Technical	Specifi	cation			
Model	ZP120N-6K	ZP120	0N-6K-KS*	ZP120N-10K-11	ZP120N-10K-11-KS*	
Power Rating	6000VA/5400W 10000VA/9000			4/9000W		
	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)					
	OUTPUT					
Rated voltage	208Vac**/220Vac/230Vac/240Vac					
Voltage regulation	± 1 %					
Rated Frequency AC Mode	50/60 Hz ± 0,2 %					
Crest Ratio	3:1					
Harmonic distortion	< 0,2% 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	RY		
Туре	Sealed lead acid battery, maintenance free		ee			
Rating	12V/7Ah		end on the	12V/9Ah	Depend on the capacity of exter-	
Numbers of batteries	20		ity of exter-	20		
Back-up Time (typical load)	> 10 minutes	nal batteries		>10 minutes	nal batteries	
DC Voltage	240Vdc					
Charging time				ours		
		GENE	RAL CHAR	ACTERISTICS		
Transfer Time (Inverter to bypass)			0 ms			
Efficiency (online mode)	>92%		>94%			
Dimensions WxHxD (mm)	260x708x560		260x708x560			
Net Weight (kg)	86 34		92 37			
Operating Temperature	0°C ~ 40 °C					
Noise Level (@ 1m)	< 50dB					
Humidity	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/ USB / ModBus					
Compliance	IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 62040-1-1, IEC 62040-2, IEC 60950-1, ETS 300019-2-2					

* KS version are provided with battery extra charger ** Derate to 90% with 208Vac output voltage. Note: product specifications are subject to change without further notice.

ZP120N

Technical Specification								
Model		ZP120N-10K-31	ZP120N-10K-31-KS*	ZP120N-20K-31	ZP120N-20K-31-KS*			
Power F	Rating		10000VA/9000W		V18000W			
1 GWGI 1	INPUT							
Rated v	oltage	220VAC/230VAC/240VAC 1ph or 380/400/415 3ph (autosensing)						
T tatou v	Voltage Tolerance	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-478Vac						
	Voltage range - Line Low Transfer	305Vac/190Vac (± 3%) based on load percentage 100%/50%						
	Voltage range - Line High Transfer	478Vac (± 3%)						
Frequer	ncy Range	47-55Hz / 54-66Hz						
THDi %		45-55HZ / 54-66HZ <5% with full load						
Power F								
Towerr	actor		≥0.99 (FULL LOAD) OUTPUT					
Rated v	oltage		208VAC**/220VAC					
Rated voltage 208 Voltage regulation				± 1 %				
	requency AC Mode							
Crest R		50/60 Hz ± 0,2 %						
	nic distortion	3:1 < 0,2% THD, linear load						
	Waveform							
	d Capability	Pure Sinewave						
Parallel	-	100%-110%: 5 min; 110%-130%: 1 min ; 130%-150%: 10 sec; >150%: 2 sec						
Power f		Up to 4 0,9						
1 OWCI II	actor	BATTERY						
Туре		S	ealed lead acid batte		ee			
Rating		12V/7Ah		12V/7Ah				
	ers of batteries	24 + 24(optional)	Depend on the	24 + 24	Depend on the			
	p Time (typical load)	> 6 minutes + 6 minutes(optional)	capacity of exter- nal batteries	> 6 minutes	capacity of exter- nal batteries			
DC Vol	tane	minutes(optional) 288Vdc						
Chargin		< 5 hours						
Criargii	ig time		GENERAL CHARA					
Transfe	r Time (Inverter to bypass)		O r					
	cy (online mode)	>93%		>93%				
	ions WxHxD (mm)			350x890x650				
Net Wei	. ,	350x890x650 175		183				
	ng Temperature			45 °C				
	evel (@ 1m)	55dB						
Humidit	, , ,	0-95% (no condensing)						
	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						
Interface	e for Intelligent Slot	SNMP / RS485 / AS400 Card/ USB / ModBus						
		IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5,						
Complia	npliance IEC 62040-1-1, IEC 62040-2, IEC 60950-1							





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