

Quality Energy Provider



ZP120i

online UPS

1, 2, 3, 6, 10, 15, 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

ZP120i series

G-TEC is proud to introduce the upgraded superior **ZP120i** 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. **ZP120i UPS** power capacity is available **from 1kVA to 20kVA 1/1** (1/1 stands for single phase input and single phase output); **from 10kVA to 20kVA 3/1** (3/1 stands for three phase input and single phase output).

COMMON FEATURES:

- Digital Signal Processor (DSP) Control
- Cold Start Function
- Strongest performance
- High Power Density
- Flexible Settings
- Internal components designed for stressing environment
- Highest efficiency with low heat dissipation
- Long run time Model with optional battery and dedicated super charger (KS Version)



1kVA to 3kVA 1/1

STRONGEST PERFORMANCE

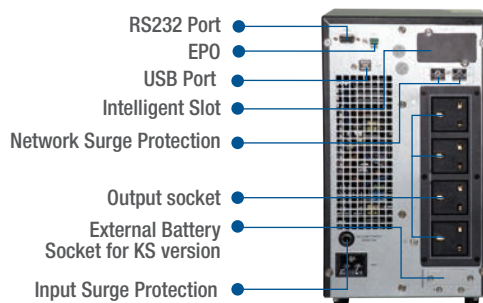
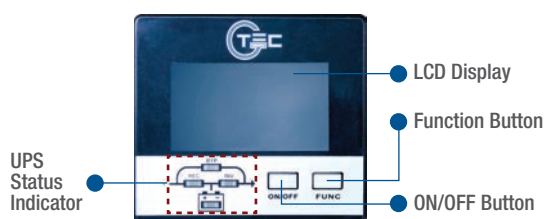
- DSP technology fully controlled
- Self monitoring and fault diagnosis
- Lowest output voltage distortion
- Transient voltage surge suppressor (TVSS)
- Short circuit protection

HIGH POWER DENSITY

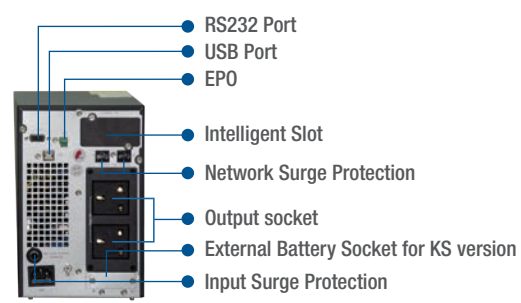
- Wide input voltage range
- 0.9 output power factor
- Input power factor connection and lowest current distortion

FLEXIBLE SETTINGS

- Selectable configuration via LCD: online, eco-mode
- EPO connector for remote emergency power off
- External battery connection for KS model
- Simplified installation



ZP120i - 2K



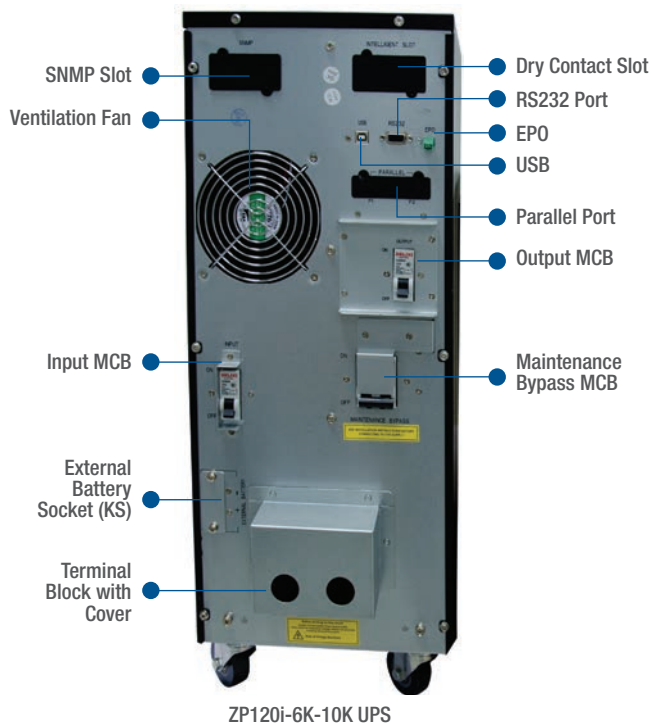
ZP120i - 1K

STRONGEST PERFORMANCE

- DSP technology fully controlled
- LCD display multi language
- Real time event logs
- Dual internal communications bus
- Auto fan speed adjustment
- Short circuit protection

HIGH POWER DENSITY

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

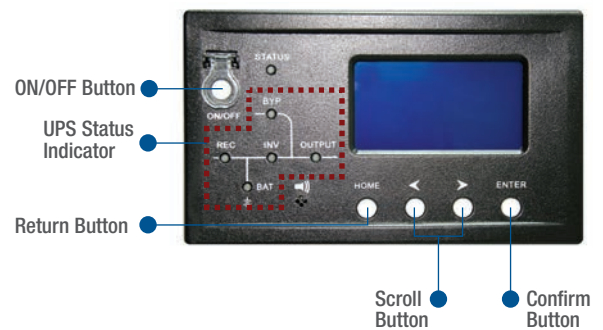


FLEXIBLE SETTINGS

- Selectable configuration via LCD: online, parallel, eco-mode.
- Parallelable up to 3 units with optional parallel kit
- Standard mechanical maintenance bypass
- Optional internal insulation transformer
- EPO connector for remote emergency power off
- Standard external battery connection for KS model
- Back-feed protection
- External 16 or 20 blocks 12V battery model available

OPTIONAL

- External 8A charger PCB kit for 16 blocks 12V battery
- External 24A charger box for 16 blocks 12V battery

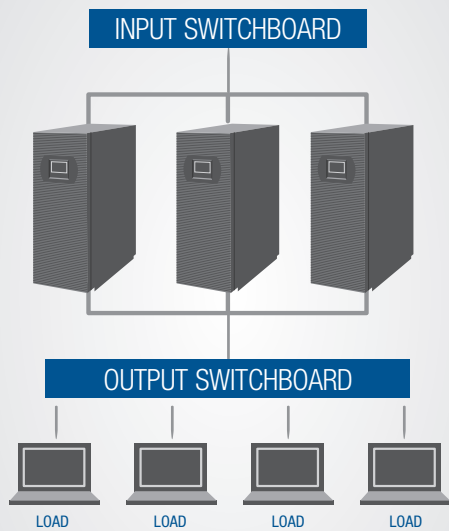


The 10-20kVA three phase input and single phase output compact design has the same technical performance with the following advantages:

- Input voltage 3 phase or 1 phase, easily changable
- External battery 16 or 20 blocks 12V battery available

OPTIONAL

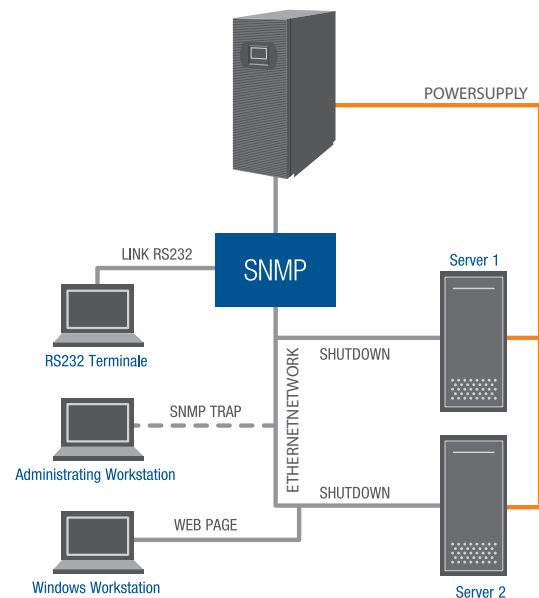
- External 8A charger PCB kit for 16 blocks 12V battery
- External 24A charger box for 16 blocks 12V battery



ZP120i 6kVA to 20kVA UPS with optional parallel kit fitted in parallel configuration, can meet most demanding power requirement. Increase power availability and flexibility.

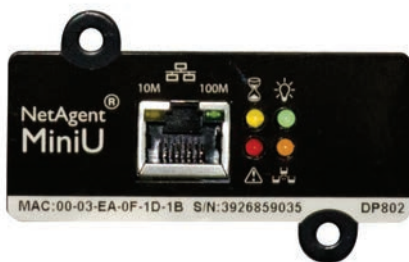
Parallel Redundancy feature provides economic power solution for system integration. Furthermore, parallel redundancy feature equally shares the load to maximize UPS performance, and more secure UPS continuous operation.

Direct Connection with Ethernet Network



Communication and Power Management Solutions

With optional SNMP card, 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, FreeBSD. More than that, to offer increased benefits for our customers, we have also released USB version MAC version on the internet.



- 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



TECHNICAL SPECIFICATIONS						
Model	ZP120i-1K	ZP120i-1KS	ZP120i-2K	ZP120i-2KS	ZP120i-3K	ZP120i-3KS
Power Capacity (* for 200Vac & 208Vac)	1kVA / 0.9kW @ 0.9PF 1kVA / 0.8kW @ 0.8PF (*)		2kVA / 1.8kW @ 0.9PF 2kVA / 1.6kW @ 0.8PF (*)		3kVA / 2.7kW @ 0.9PF 3kVA / 2.4kW @ 0.8PF (*)	
INPUT						
Voltage	200Vac / 208Vac / 220Vac / 230Vac / 240Vac					
Acceptable voltage range	110Vac to 288Vac >176Vac for 100% load / >154Vac for 80% load / >132Vac for 70% load / >110Vac for 50% load					
Frequency Range	40Hz – 70Hz					
Input PF	>0.98					
Power Factor	≥0.99 (I/P:220V, FULL RCD LOAD)					
Input current	5.5A max		11A max			16A max
Input connection	IEC C13 10A power cord		IEC C19 16A power cord			
BATTERY SECTION						
Type	Sealed lead acid maintenance free					
DC voltage nominal	36Vdc - (3 x 12V7Ah)		72Vdc – (6 x 12V7Ah)		96Vdc – (8 x 12V7Ah)	
Backup time (typical load)	>8 -10mins	External battery	>9 - 11mins	External battery	>7 - 10 mins	External battery
Recharge time	8 hours to 90%					
UPS OUTPUT						
Rated voltage	200Vac / 208Vac / 220Vac / 230Vac / 240Vac					
Voltage stability	± 1 %					
Rated Frequency	50Hz / 60Hz ±0.2% (free running mode)					
Voltage distortion	≤2% linear load / ≤5.5% non-linear load		≤2% linear load / ≤5% non-linear load			
Output waveform	Pure Sinewave					
Overload performance	Inverter mode: 105% ~ 130% for 1min and 150% for 30s, then transfer to bypass Battery mode: 105% ~ 130% shutdown after 30s; 150% shutdown after 5s Bypass mode: <130% continuous; >130% ~ <150% shutdown after 10mins; >150% ~ <180% shutdown after 5s					
Crest factor	3 : 1					
Output connection	2 x output UK socket		4 x output UK socket		3x output UK socket & terminal block	
	Other IEC, German, Australia sockets can be available upon request					
GENERAL CHARACTERISTICS						
Transfer Time	0s bypass to Inverter / 2ms from Inverter to Bypass					
Overall efficiency	94% ECO / 87% at 50% load, 86% at 100% load		97% ECO / 88% at 50% load, 87% at 100% load		97% ECO / 89% at 50% load, 87% at 100% load	
Mimic panel information	Large LCD display + command buttons + LED					
Temperature	0°C to 40°C (operating) / -20°C to 70°C (storage)					
Humidity	<95% non condensing					
Noise Level (@ 1m)	<43dBA at <60% load; >60% load <47dBA		<45dBA at <60% load; >60% load <50dBA			
Net Size (mm) & Net Weight (kg)	144(L) x 353(D) x 222(H) / 12 / 6 (KS)		190(L) x 374(D) x 336(H) / 21 / 10.5 (KS)		190(L) x 426(D) x 336(H) / 25.6 / 11.5 (KS)	
Remote interfacing	USB port & Intelligent slot (standard); Optional: SNMP Card; Dry contact card (DB9 or phoenix connector)					
UPS management	USB port supports: Windows 2000/ 2003/ XP/ Vista/ 2008/ Windows 7 Power management from SNMP supports: TCP/IP; UDP; SNMP; Telnet; SNTP; PPP; HTTP; SMTP					
Standard compliance	IEC 62040-1-1; IEC 62040-2 class A; IEC 61000-4-2 level 4; IEC 61000-4-3 level 3; IEC 61000-4-4 level 4; IEC 61000-4-5 level 4; IEC 61000-2-2					

* KS version are provided with battery extra charger

** Derate to 90% with 208Vac output voltage. Derate to 80% with 200Vac output voltage, derate to 60% automatically when at converter mode

Note: product specifications are subject to change without further notice.

TECHNICAL SPECIFICATIONS						
Model	ZP120i-6K	ZP120i-6KS	ZP120i-10K-11	ZP120i-10KS-11	ZP120i-15KS-11	ZP120i-20KS-11
Power Capacity	6kVA/ 5.4kW		10kVA/ 9kW		15kVA/ 13.5kW	20kVA/ 18kW
UPS INPUT						
Voltage	220Vac / 230Vac / 240Vac					
Acceptable voltage range	110Vac to 288Vac >110Vac for 65% load / >132Vac for 80% load / >154Vac for 90% load / >176Vac for 100% load					
Frequency range	40Hz – 70Hz					
Input PF	≥0.99					
Input current	34A max		57A max		87A max	115A max
Input connection	Terminal block					
BATTERY SECTION						
Type	Sealed lead acid maintenance free					
DC voltage nominal	Default 192Vdc - (16 x 12V battery) / 240Vdc – (20 x 12V battery) on request					
Backup time (typical load)	>8 -10mins	External battery	>6 – 8mins	External battery		
Recharge time	7h to 90%	Depending on Battery Ah	8h to 90%	Depending on Battery Ah		
UPS OUTPUT						
Rated voltage	220Vac / 230Vac / 240Vac					
Voltage stability	± 1 %					
Rated frequency	50Hz / 60Hz ±0.5% (free running mode)					
Voltage distortion	≤1% at linear load / ≤5% for non-linear load					
Output waveform	Pure sinewave					
Overload performance	Inverter mode: 110% for 10mins; 130% for 1min;and 150% for 30s, then transfer to bypass Battery mode: 110% shutdown after 10mins; 125% shutdown after 10s; >125% shutdown after 1s					
Crest factor	3 : 1					
Output connection	Terminal block					
GENERAL CHARACTERISTICS						
Transfer time	0s bypass to Inverter / 4ms from Inverter to Bypass		0 sec			
Efficiency	98% ECO / 93% at 100% load				98% ECO / 93.5% at 100% load	
Mimic Panel Information	Large LCD display + command buttons + LED					
Temperature	0°C to 40°C (operating) / -20°C to 70°C (storage)					
Humidity	<95% non condensing					
Noise Level (@ 1m)	<48dBA at <70% load; >70% load <58dBA		<48dBA at <70% load; >70% load <60dBA		<53dBA at <70% load; >70% load <66dBA	
Size (mm) & Weight (kg) - Standard	250(L) x 526(D) x 645(H), 57kg (6kVA); 65kg (10kVA)				N.A.	
Size (mm) & Weight (kg) - KS Model	250(L) x 526(D) x 480(H), 18kg (6kVA); 20kg (10kVA)				250(L) x 544(D) x 705(H); 33kg	
Remote interfacing	USB port & Intelligent slot (standard); Optional: SNMP Card; Dry contact card (DB9 or phoenix connector)					
UPS management	USB port supports: Windows 2000/ 2003/ XP/ Vista/ 2008/ Windows 7 Power management from SNMP supports: TCP/IP; UDP; SNMP; Telnet; SNTP; PPP; HTTP; SMTP					
Standard compliance	IEC 62040-1-1; IEC 62040-2 class C3; IEC 61000-4-2 level 4; IEC 61000-4-3 level 3; IEC 61000-4-4 level 4; IEC 61000-4-5 level 4; IEC 61000-2-2					

* KS version are provided with battery extra charger

** Derate to 90% with 208Vac output voltage, derate to 60% automatically when at converter mode

*** Optional external battery cabinet with or without battery is available upon request

Note: product specifications are subject to change without further notice.

TECHNICAL SPECIFICATIONS				
Model	ZP120i-10K-31	ZP120i-10KS-31	ZP120i-15KS-31	ZP120i-20KS-31
Power Capacity	10kVA/ 9kW		15kVA/ 13.5kW	20kVA/ 18kW
UPS INPUT				
Voltage	380Vac / 400Vac / 415Vac			
Acceptable voltage range (phase neutral)	110Vac to 288Vac >110V~288V for 65% load / >132V~288V for 80% load / >154V~288V for 90% load / >176V~288V for 100% load			
Frequency range	40Hz – 70Hz			
Input PF	≥0.95			
Input current @ 220V (Rectifier / Bypass)	19A / 45A (max)		28.5A / 68A (max)	38A / 91A (max)
Input connection	Terminal block			
BATTERY SECTION				
Type	Sealed lead acid maintenance free type			
DC voltage nominal	Default 192Vdc - (16 x 12V battery) / 240Vdc – (20 x 12V battery) on request			
Backup time (typical load)	>6 – 8mins	External battery		
Recharge time	8h to 90%	Depending on battery capacity		
UPS OUTPUT				
Rated voltage	220Vac / 230Vac / 240Vac			
Voltage stability	± 1 %			
Rated Frequency	50Hz / 60Hz ±0.5% (free running mode)			
Voltage distortion	≤1% at linear load / ≤5% for non-linear load			
Output waveform	Pure sinewave			
Overload performance	Inverter mode: 110% for 10mins; 130% for 1min;and 150% for 30s, then transfer to bypass; shutdown after 1min Battery mode: 110% shutdown after 10mins; 125% shutdown after 10s; >125% shutdown after 1s			
Crest factor	3 : 1			
Output connection	Terminal block			
GENERAL CHARACTERISTICS				
Transfer Time	0 secs			
Efficiency	98% ECO / 91% at 100% load		98% ECO / 92% at 100% load	
Mimic panel information	Large LCD display + command buttons + LED			
Temperature	0°C to 40°C (operating) / -20°C to 70°C (storage)			
Humidity	<95% non condensing			
Noise Level (@ 1m)	<48dBA at <70% load; >70% load <60dBA		<53dBA at <70% load; >70% load <66dBA	
Size (mm) (KS model)	250(L) x 526(D) x 645(H)		250(L) x 562(D) x 710(H)	
Weight	69kg	25kg	34kg	34kg
Remote interfacing	USB port & Intelligent slot (standard); Optional: SNMP Card; Dry contact card (DB9 or phoenix connector)			
UPS management	USB port supports: Windows 2000/ 2003/ XP/ Vista/ 2008/ Windows 7 Power management from SNMP supports: TCP/IP; UDP; SNMP; Telnet; SNTP; PPP; HTTP; SMTP			
Standard compliance	IEC 62040-1-1; IEC 62040-2 class C3; IEC 61000-4-2 level 4; IEC 61000-4-3 level 3; IEC 61000-4-4 level 4; IEC 61000-4-5 level 4; IEC 61000-2-2			

* KS version are provided with battery extra charger

** Derate to 90% with 208Vac output voltage

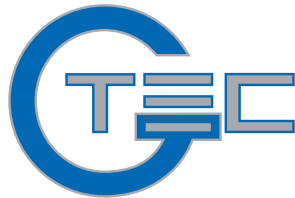
*** Optional external battery cabinet with or without battery is available upon request

Note: product specifications are subject to change without further notice.

G-Tec Companies are also present worldwide with Business Partners in several countries.

G-Tec Europe Srl in Vicenza – Italy

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