



Working in Power



ZP120i

online UPS

1, 2, 3, 6, 10, 15, 20 kVA
6, 10, 15, 20kVA (New PF1 UPS)

- 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

In today's world UPS is not enough for basic power protection, but needs to be more robust, high density compact, ECO friendly, provide flexible power protection to support mission critical equipment; electro-medical equipment; light industrial application. **G-TEC** is proud to introduce the upgraded* 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).

* high efficiency, output PF 1 range from 6K/ 10K/ 15K/ 20K UPS

COMMON FEATURES:

- Digital Signal Processor (DSP) Control
- New Digital Control Battery charger (available for PF1 UPS)
- 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

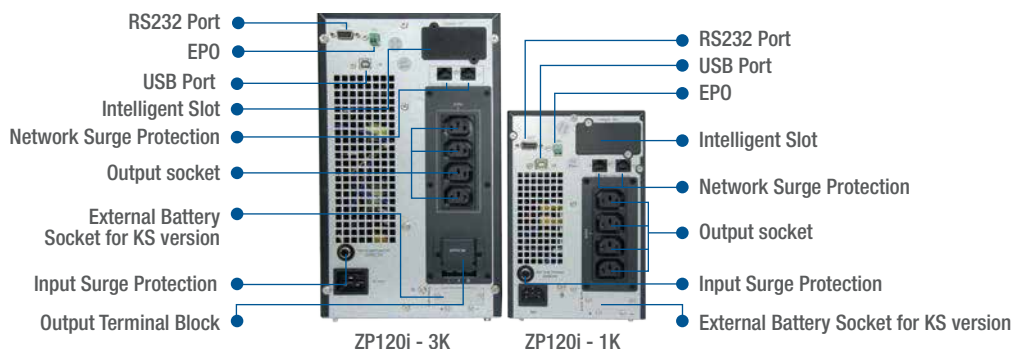
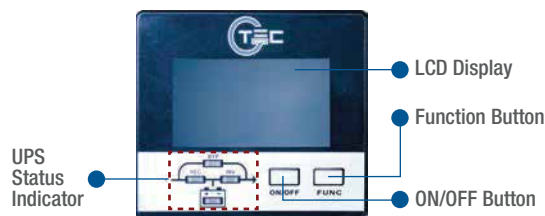
- DSP technology fully controlled
- Self monitoring and fault diagnosis
- Lowest output voltage distortion
- Transient voltage surge suppressor (TVSS)
- Short circuit protection

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



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
- For 1/1 model, lowest input voltage 110Vac
For 3/1 model, lowest input voltage 190Vac

HIGH POWER DENSITY

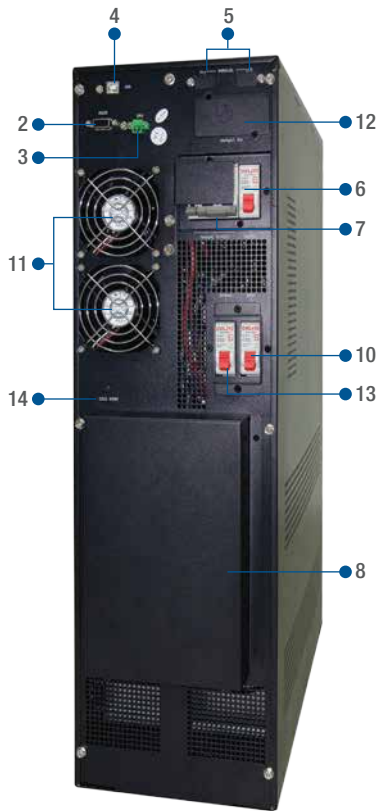
- Output power factor 1

FLEXIBLE SETTINGS

- Selectable configuration via LCD: online, parallel, eco-mode
- Parallelable up to 4 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, with 5A & 12A battery charger options
- Back-feed protection
- External blocks 12V battery model selectable 16; 18; 20; 22 or 24

OPTIONAL

- External 24A digital battery charger box for 16; 18; 20; 22 or 24 12V battery

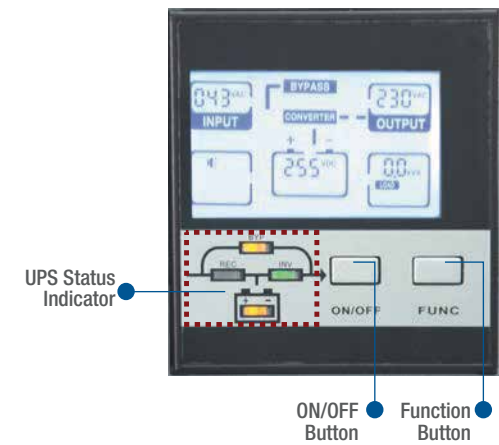


ZP120i-6K/ 10K (PF 1) UPS



ZP120i-6K/ 10K UPS

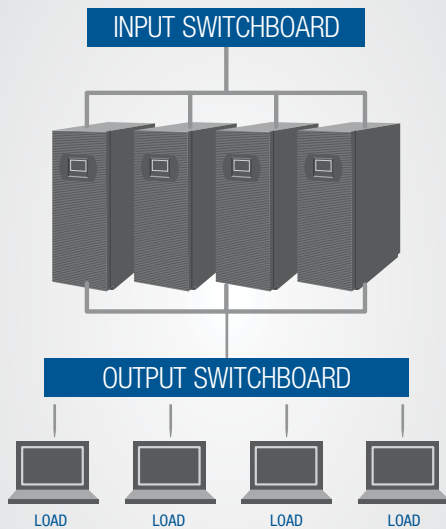
Description			
1	Dry Contact	8	Terminal Block with Cover
2	RS232 Port	9	External Battery Socket (KS)/ Terminal Block
3	EPO	10	Input MCB
4	USB	11	Ventilation Fans
5	Parallel Port	12	SNMP
6	Output MCB	13	Bypass MCB
7	Manual Bypass MCB	14	Battery Cold Start



24A External Battery Charger

24A external battery charger is a standalone digital battery charger, it can be connected parallel to UPS DC section, or it can be used as a standalone battery charger. It has the following features:

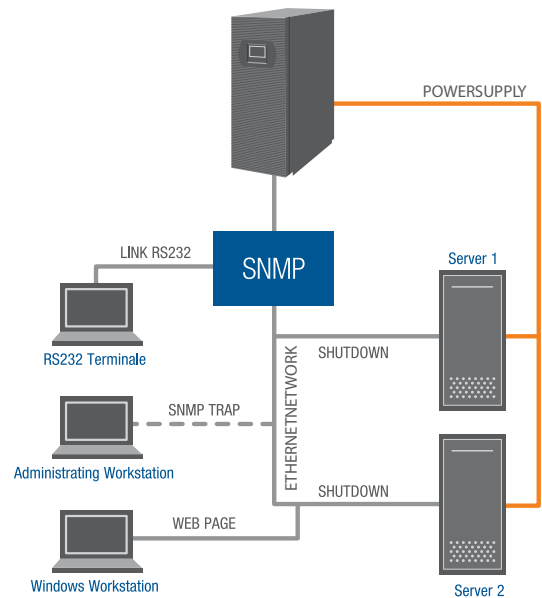
- Adjustable charging voltage for 16, 18, 20, 22, 24 of 12V battery
- Adjustable charging current from 1Adc to 24Adc
- Built-in RS232, USB & EPO for software configuration and remote control



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

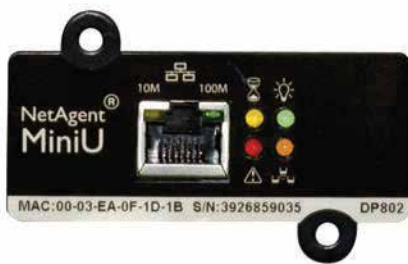
Parallel Redundancy feature provides economic power solution for system integration. Furthermore, parallel redundancy feature equally shares the load to maximize UPS performance, and more secure UPS continuous operation.

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	ZP120i-6K	ZP120i-6KS	120i-10K-11	120i-10KS-11
Power Capacity (* for 200Vac & 208Vac)	1kVA / 0.9kW (*)		2kVA / 1.8kW (*)		3kVA / 2.7kW (*)		6kVA/ 5.4kW		10kVA/ 9kW	
UPS INPUT										
Voltage	200Vac / 208Vac / 220Vac / 230Vac / 240Vac						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						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	≥0.97						≥0.99			
Input current (at nominal voltage)	5.5A max		11A max		16A max		34A max		57A max	
Input connection	IEC C13 10A power cord		IEC C19 16A power cord				Terminal block			
BATTERY SECTION										
Type	Sealed lead acid maintenance free									
DC voltage nominal	36Vdc - (3 x 12V7Ah)		72Vdc – (6 x 12V7Ah)		96Vdc – (8 x 12V7Ah)		Default 192Vdc - (16 x 12V battery) / 240Vdc – (20 x 12V battery) on request			
Backup time (typical load)	>8 - 10 mins	External battery	>8 - 10 mins	External battery	>8 - 10 mins	External battery	>6 - 8 mins	External battery	>5 - 6 mins	External battery
Recharge time	8 hours to 90%						7 hours to 90%	Depending on battery	8 hours to 90%	Depending on battery
UPS OUTPUT										
Rated voltage (* for 200Vac & 208Vac, output PF 0.8)	200Vac -208Vac (*) / 220Vac - 230Vac - 240Vac						220Vac - 230Vac - 240Vac			
Voltage stability	± 1 %									
Rated Frequency	50Hz / 60Hz ±0.2% (free running mode)						50Hz / 60Hz ±0.5% (free running mode)			
Voltage distortion	≤2% linear load / ≤5.5% non-linear load		≤2% linear load / ≤5% non-linear load				≤1% at linear load / ≤5% for 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						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	4 x IEC320 C13 10A		4 x IEC320 C13 10A & 1 x C19 16A receptacles				Terminal block			
	Other German, Australia & UK sockets for 1kVA to 3kVA model are available upon request									
GENERAL CHARACTERISTICS										
Transfer Time	0 sec bypass to Inverter / 2ms from Inverter to Bypass						0s bypass to Inverter / 4ms from Inverter to Bypass		0 sec	
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		98% ECO / 93% 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				<48dBA at <70% load; >70% load <58dBA		<48dBA at <70% load; >70% load <60dBA	
Net Size (mm) & Net Weight (kg) - STANDARD	144(L) x 353(D) x 222(H) / 12		190(L) x 374(D) x 336(H) / 21		190(L) x 426(D) x 336(H) / 25.6		250(L) x 562(D) x 650(H), 57(6kVA) / 65kg (10kVA)			
Net Size (mm) & Net Weight (kg) - KS	144(L) x 353(D) x 222(H) / 6		190(L) x 374(D) x 336(H) / 10.5		190(L) x 426(D) x 336(H) / 11.5		250(L) x 504(D) x 480(H), 18(6kVA) / 20(10kVA)			
Remote interfacing	USB port; RS232& Intelligent slot (standard); Optional: SNMP Card; Dry contact card (DB9 or phoenix connector)									
UPS management	USB port & RS232 for UPS proprietary configuration software Power management from SNMP supports: TCP/IP; UDP; SNMP; Telnet; SNMP; 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 is fitted with super battery charger.

Battery backup time is sized based on 60% typical load at PF 0.9

UPS capacity shall derate to 90% for 208V; and derate to 80% for 200V output voltage; derate to 60% automatically when at converter mode.

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

Product specifications are subject to changes without further notice.

ZP120i

6kVA to 10kVA (1/1) & 10kVA to 20kVA (3/1), Output PF 1

TECHNICAL SPECIFICATIONS									
Model	ZP120i-6K	ZP120i-6KS	ZP120i-6KS-12A	ZP120i-10K-11	ZP120i-10KS-11	ZP120i-10KS-11-12A	ZP120i-10KS-31	ZP120i-15KS-31	ZP120i-20KS-31
Power Capacity	6kVA/ 6kW		6kVA / 5.4kW	10kVA/ 10kW		10kVA / 9kW	10kVA/ 10kW	15kVA/ 15kW	20kVA/ 20kW
UPS INPUT									
Voltage	200Vac & 208Vac (PF 0.9) / 220Vac, 230Vac, 240Vac (PF 1)						380V, 400V, 415V (L-L)		
Acceptable voltage range	110Vac to 288Vac >110Vac for 65% load / >132Vac for 80% load / >154Vac for 90% load / >176Vac for 100% load						190Vac – 499Vac >190Vac for 50% load / >228Vac for 75% load / >266Vac for 90% load / >305Vac for 100% load		
Frequency range	40Hz – 70Hz								
Input PF / THDi	≥0.99 / ≤4%						≥0.99 / ≤5%		
Input current (at nominal voltage)	30A	34A	42A	49A	53A	62A	20A (Mains) / 44A (Bypass)	30A (Mains) / 66A (Bypass)	40A (Mains) / 87A (Bypass)
Input connection	Terminal block								
BATTERY SECTION									
Type	Sealed lead acid maintenance free								
DC voltage nominal	Default 192Vdc. 240Vdc selectable	Default 192Vdc adjustable from 16; 18; 20; 22; 24 blocks 12V battery from mimic panel		Default 192Vdc. 240Vdc selectable	Default 192Vdc adjustable from 16; 18; 20; 22; 24 blocks 12V battery from mimic panel				
Backup time (typical load)	>6 – 8 mins	External battery		>6 – 8 mins	External battery				
Recharge time	8 hrs to 90%	Depending on battery Ah		8 hrs to 90%	Depending on battery Ah				
UPS OUTPUT									
Rated voltage	200Vac; 208Vac (PF 0.9) / 220Vac; 230Vac; 240Vac (PF 1)								
Voltage stability	±1%								
Rated frequency	50Hz / 60Hz ±0.5% (free running mode)								
Voltage distortion	≤1% at linear load / ≤5% for non-linear load						≤1% at linear load / ≤3% for non-linear load		
Output waveform	Pure sinewave								
Overload performance Inverter	110% for 10 mins, then transfer to bypass / 125% for 60 sec, then transfer to bypass / 150% for 30 sec, then transfer to bypass								
Overload performance Bypass	<125% permanently / 130% shutdown in 5 mins / 150% shutdown in 60 sec / > 150% shutdown in 200 ms								
Crest factor	3 : 1								
Output connection	Terminal block								
GENERAL CHARACTERISTICS									
Transfer time	0 sec								
Efficiency	Up to 95% (online mode) / 98% at ECO mode								
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)	<58dBA						<55dBA	<58dBA	
Size (LxDxH) (mm)	190x426x705	190x426x336		190x485x705	190x485x336		190x553x336	190x543x550	
Net / gross weight (kg)	56 / 61	14 / 15	14.5 / 15.5	66 / 73	16 / 17	16.5 / 17.5	20 / 22	30 / 33	
Remote interfacing	USB port; RS232 & Intelligent slot (standard); Optional: SNMP Card; Dry contact card (DB9 or phoenix connector)								
UPS management	USB port & RS232 for UPS proprietary configuration software Power management from SNMP supports: TCP/IP; UDP; SNMP; Telnet; SNTIP; 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 is fitted with 5A battery charger; KS-12A is fitted with 12A internal super battery charger (power is derate to PF 0.9)

Battery backup time is sized based on 60% typical load at PF 1

UPS capacity shall derate to 90% for 208V; and derate to 80% for 200V output voltage; derate to 60% automatically when at converter mode.

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

Product specifications are subject to changes without further notice.

ZP120i

10kVA to 20kVA (3/1), Output PF 0.9

TECHNICAL SPECIFICATIONS						
Model	ZP120i-10K-31	ZP120i-10KS-31	ZP120i-15KS-31	ZP120i-20KS-31	ZP120i-15KS-11	ZP120i-20KS-11
Power Capacity	10kVA/ 9kW		15kVA/ 13.5kW	20kVA/ 18kW	15kVA/ 13.5kW	20kVA/ 18kW
UPS INPUT						
Voltage	380Vac / 400Vac / 415Vac				220Vac / 230Vac / 240Vac	
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)	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)	>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; <60dBA for >70% load		<53dBA at <70% load; <66dBA for >70% load			
Size (mm)	250(L) x 562(D) x 770(H)	250(L) x 562(D) x 650(H)	250(L) x 562(D) x 770(H)			
Weight	69kg	25kg	34kg			
Remote interfacing	USB port & Intelligent slot (standard); Optional: SNMP Card; Dry contact card (DB9 or phoenix connector)					
UPS management	USB port & RS232 for UPS proprietary configuration software Power management from SNMP supports: TCP/IP; UDP; SNMP; Telnet; SNMP; 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 is fitted with super battery charger.

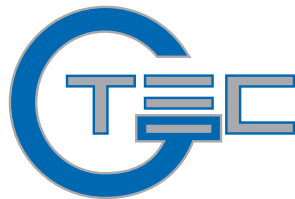
Battery backup time is sized based on 60% typical load at PF 0.9

UPS capacity shall derate to 90% for 208V; and derate to 80% for 200V output voltage; derate to 60% automatically when at converter mode.

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

Product specifications are subject to changes without further notice

G-Tec Asia Pacific Pte Ltd



Working in Power



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