



ZP 110 on-line UPS

1, 2, 3, 6, 10kVA single phase

- LOCAL AREA NETWORKS (LAN)
- SERVERS
- DATA CENTRES
- INTERNET CENTERS (ISP/ ASP/ POP)
- INDUSTRIAL PLCS
- EMERGENCY DEVICES (LIGHTS/ ALARM)
- ELECTRO-MEDICAL DEVICES
- TELECOMMUNICATIONS DEVICES
- INDUSTRIAL APPLICATIONS



G-TEC is proud to introduce the latest DSP true on-line double conversion UPS for protecting small and medium size mission critical & IT load, so as to safeguard your valuable equipment and critical data from any abnormal power disturbances, such as surges, blackouts and lightning strikes.

ZP110 power capacity is available from 1-2-3-6-10kVA

ZP110 is fully digital signaling processor (DSP) controlled to provide quality supply, high reliability and high performance UPS.



Software support most OS for remote monitor and control UPS through LAN, 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

Design features:

- User friendly mimic panel, with LCD, LED and control push button.
- Designed with maximum efficiency at output power factor 0.8
- Full DSP controlled, precision control and high reliability.
- Wide input voltage range, could accommodate the worst voltage fluctuation.
- Generator compatible, excellent PFC performance with input power factor close to unity (0.99).
- Optional battery extended socket, for long battery backup time.
- Communication slot for optional SNMP card; AS400 Dry Contact Card, SMART RS232 for configuration
- Cold start function
- Automatic self test function during start up
- Parallel up to 4 UPS for 6kVA & 10kVA
- Software for multi OS for remote monitoring and progressive shutdown software

**DSP**

ZP110 On-Line UPS, 1kVA to 3kVA Technical Specification

MODEL	ZP110, 1K LCD	ZP110, 2K LCD	ZP110, 3K LCD
Power Rating	1kVA/ 0.8kW	2kVA/ 1.6kW	3kVA/ 2.4kW
	INPUT		
Voltage	220V / 230V / 240V		
Input low/ high voltage threshold (Dependent on output load rate)	Load >90% - Battery starts backup at AC 185V ±5V Load 71% to 90% - Battery starts backup at AC 160V ±5V Load 66% to 70% - Battery starts backup at AC 150V ±5V Load 56% to 65% - Battery starts backup at AC 130V ±5V Load ≤55% - Battery starts backup at AC 110V ±5V Nominal load - Battery starts backup at AC 300V±5V		
Rated frequency	46Hz – 54Hz (adjustable)		
Input power factor	0.99		
	BATTERY / CHARGER		
Battery type	Sealed lead acid maintenance free type		
Backup time @ typical load	8mins to 15mins depending on load		
Optional EX charger current	7A dc		
	OUTPUT		
Voltage	220V / 230V / 240V		
Voltage stability	±2%		
Voltage distortion	≤3% at linear load		
Frequency	50Hz (synchronizing up to ±8%)		
Frequency at free running	50Hz ±0.2Hz		
Output waveform	Sinusoidal		
Overload @ 0.8pf load	105% - 125% for 50sec; 150% for 25sec; >150% for 300msec. (Transfer to Bypass eventually)		
Efficiency	85%		
	DISPLAY / INTERFACE		
LCD Display	AC/ DC voltages; kVA/ kW; Frequency; Temperature; Battery & load level		
LED Status Indicator	Utility power; Battery discharge; Inverter On		
External Communication	RS232 / RJ11 / Optional Intelligent Slot		
Control	3 control push button for POWER ON / POWER OFF / FUNCTION KEY		
Communication software	Windows XP/ 2003; Linux; Unix		
Optional	SNMP Card/ USB Card/ Dry Contact AS400 Card/ CMC Card/ RS485 Card/ EMD Monitoring Device		
	PHYSICAL DATA		
Dimension (L x D x H) mm	144 x 350 x 229	190 x 328 x 424	
Weight with battery (kg)	11.5	22.2	26.3
Weight w/o battery, EX version	5.7	10	10
Operating temperature	0°C to 40°C		
Relative humidity	Up to 90% non condensing		
Audible noise @ 1m (dBA)	≤45		
	STANDARD		
EMC	IEC 61000-4-2 Level 4/ IEC6100-4-3 Level3 / IEC61000-4-4 Level 4 / IEC 61000-4-5 Level 4 / EN55022 Class B		
Safety	IEC62040-1		

**DSP**

ZP110 On-Line UPS, 6kVA & 10kVA Technical Specification

MODEL	ZP110, 6K LCD	ZP110, 10K LCD
Power Rating	6kVA/ 4.8kW	10kVA/ 8kW
	INPUT	
Voltage	220V / 230V / 240V	
Input low/ high voltage threshold (Dependent on output load rate)	Load >90% - Battery starts backup at AC 175V \pm 5V Load 71% to 90% - Battery starts backup at AC 165V \pm 5V Load 50% to 70% - Battery starts backup at AC 150V \pm 5V Load \leq 50% - Battery starts backup at AC 120V \pm 5V Nominal load - Battery starts backup at AC 274V \pm 5V	
Rated frequency	46Hz – 54Hz (adjustable)	
Input power factor	0.99	
	BATTERY / CHARGER	
Battery type	Sealed lead acid maintenance free type	
Backup time @ typical load	8mins to 15mins depending on load	
<i>Optional EX</i> charger current	7A dc	
	OUTPUT	
Voltage	220V / 230V / 240V	
Voltage stability	\pm 1%	
Voltage distortion	\leq 2% at linear load	
Frequency	50Hz (synchronizing up to \pm 8%)	
Frequency at free running	50Hz \pm 0.1Hz	
Output waveform	Sinusoidal	
Overload @ 0.8pf load	105% - 125% for 60sec; 125% - 135% for 30sec; >135% for 100msec. (Transfer to Bypass eventually)	
Efficiency	>90%	
	DISPLAY / INTERFACE	
LCD Display	AC/ DC voltages; kVA/ kW; Frequency; Temperature; Battery & load level	
LED Status Indicator	Utility power; Battery discharge; Inverter On	
External Communication	RS232 / RJ11 / Optional Intelligent Slot	
Control	3 control push button for POWER ON / POWER OFF / FUNCTION KEY	
Communication software	Windows XP/ 2003; Linux; Unix	
Optional	SNMP Card/ USB Card/ Dry Contact AS400 Card/ CMC Card/ RS485 Card/ EMD Monitoring Device	
	PHYSICAL DATA	
Dimension (L x D x H) mm	260 x 560 x 717 (Standard) / 260 x 533 x 501 (Ex version)	
Weight with battery (kg)	68	80
Weight w/o battery, EX version	17.5	19.5
Operating temperature	0°C to 40°C	
Relative humidity	Up to 95% non condensing	
Audible noise @ 1m (dBA)	\leq 50	\leq 58
	STANDARD	
EMC	IEC 61000-4-2 Level 4/ IEC6100-4-3 Level3 / IEC61000-4-4 Level 4 / IEC 61000-4-5 Level 4 / EN55022 Class B	
Safety	IEC62040-1	