

ZY120

1-3 kVA

SINGLE-PHASE ONLINE UPS

1:1

The ideal solution for:

- ✓ *SERVER*
- ✓ *COMPUTER SYSTEMS*
- ✓ *CORPORATE OFFICES*
- ✓ *SECURITY SYSTEMS*

OVERVIEW

ZY120 is a **double conversion online UPS** designed for small and medium sized business critical systems, with 1, 2 and 3 kVA power sizes available.

Thanks to **embedded coated PCBs**, and with **external batteries** and **larger battery charger** optionally available, ZY120 safeguards at best connected devices, and it guarantees really high autonomy and strong protection against common corrosive agents.

0.9

PF 0.9

Output power factor 0.9



Cold Start

UPS start directly by batteries

IGBT

IGBT

IGBT technology with PWM



EPO

Remote Emergency Power Off



Digital control

DSP with microprocessor



HIGH FLEXIBILITY

ZY120 is a compact sized UPS that guarantees high energy efficiency. Thanks to **wide input voltage range** compatibility and **different selectable operating modes**, ZY120 is a very flexible UPS system that can meet different users' needs, and it can excellently suit for more tricky usage, such as computer rooms or industrial environments.

The **user friendly LCD display** provides in real time main information about connected devices, remaining battery charge, and input/output voltage and frequency.

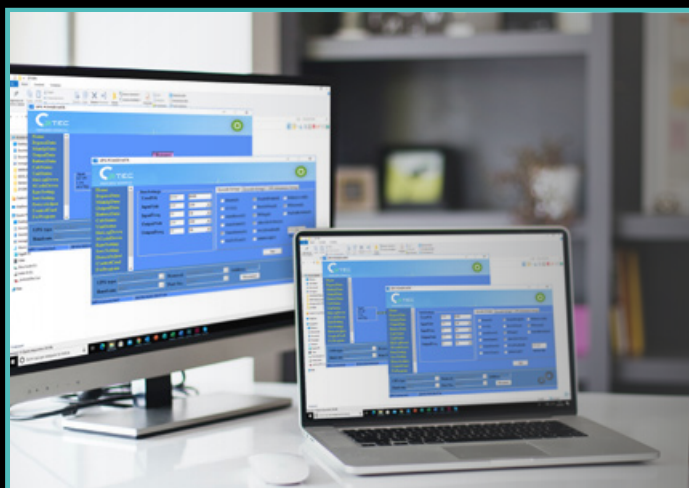


OPTIMIZED BATTERY MANAGEMENT

ZY120 series can do **automatic battery tests**, for each UPS power size.

This kind of tests help to get more efficient battery management and at the same time they increase the system's reliability, ensuring effective and steady protection for all connected devices.

ZY120 is also available in the KS version. This model is equipped with a larger battery charger and external battery cabinets, so to further reduce charging times and exponentially increase the UPS autonomy.



SOFTWARE

The included monitoring software supports most Operating Systems and allows you to receive **notifications about active alarms directly on your smartphone**.

It's also possible to setup computer auto-shutdown options and to operate many **remote monitoring tests**, so to keep the best operating performance for connected IT systems.

MODEL	ZY120-1K	ZY120-1K-KS*	ZY120-2K	ZY120-2K-KS*	ZY120-3K	ZY120-3K-KS*
Power	1000 VA / 900 W		2000 VA / 1800 W		3000 VA / 2700 W	
MAIN INPUT						
Grid system	1 Phase + Neutral + Ground					
Rated voltage / Frequency	200/208/220/230/240 VAC, 40~70 Hz					
Voltage range	110~288 VAC, 100% load until 176V / linear deraiting until 50% with 110V					
Rating (nominal input voltage, batteries charged)	4.8 A		9.6 A		14.4 A	
Frequency range	40~70 Hz					
Power factor	≥ 0.97					
Current THDi	Compliant to EN 61000-2-3					
OUTPUT						
Rated voltage / Frequency	200/208/220/230/240 VAC, 50/60 Hz					
Power Factor	0,9					
Wave form	Pure sine wave					
Voltage THDv	≤ 2% THD (linear load); ≤ 5.5% THD (non-linear load)		≤ 2% THD (linear load); ≤ 5% THD (non-linear load)			
Voltage precision	±1%					
Transient recovery	Complies with EN 62040-3 VFI-111					
Inverter overload	105%~130%: Transfer to bypass after 1 mins. 150%: Transfer to bypass after 30s					
Bypass overload	load < 130%, long term operation 130% < load < 150%, 10 minutes 150% < load < 180%, 5 seconds					
Frequency regulation	+/- 0,1 Hz in battery mode					
Synchronized range	+/-5Hz default					
Synchronized slew rate	Settable					
Crest factor	3:1					
BATTERIES						
Battery type	Pb					
Battery capacity	12 VDC / 7 Ah	Selectable	12 VDC / 7 Ah	Selectable	12 VDC / 7 Ah	Selectable
Number of batteries in series	3		6		8	
Battery rate voltage	36 VDC		72 VDC		96 VDC	
Backup time	80% load: up to 6 minutes	Depending on external batteries capacity	80% load: up to 6 minutes	Depending on external batteries capacity	80% load: up to 5.5 minutes	Depending on external batteries capacity
BATTERY CHARGER						
Charging voltage	float: 41 VDC / boost: 42 VDC		float: 82 VDC / boost: 84 VDC		float: 109 VDC / boost: 112 VDC	
Charging current (Max)	1 A	8 A	1 A	8 A	1 A	8 A
Charging time	8 h to recover 90% capacity	Depending on external batteries capacity	8 h to recover 90% capacity	Depending on external batteries capacity	8 h to recover 90% capacity	Depending on external batteries capacity
SYSTEM						
Efficiency	90,0 %		90,0 %		91,0%	
Display	LED + LCD					
Protection degree	IP20					
Interface	Standard equipment: USB port, RS232, Cold Start, EPO Optional: Dry contacts, SNMP					
ENVIRONMENT						
Operating temperature	0 ~ 40°C					
Storage temperature	-20 ~ 70°C					
Relative humidity	0 ~ 95% (no condensing)					
Noise (dBA at 1 meter far)	< 43 dB @ < 90% load, < 47dB @ > 90% load		< 45 dB @ < 60% load, < 50 dB @ > 60% load			
Altitude	< 1000m; load derated 1% per 100m, from 1000 ~ 2000m					
MECHANICAL DATA						
Dimensions W*D*H (mm)	144*364*228		190*387*336		190*439*336	
Weight (Kg)	12	6	21	10,5	25,6	11,5
Color	Black					

Note: technical specifications and data could be changed without notification

* KS denotes the UPS version with increased battery charger and no internal batteries. These versions are available upon specific request

GTEC SERVICE

GTEC supports its customers throughout the whole product life cycle, providing technical assistance and after-sales service at the highest professional standards, so to produce the best partnership experience.



MAINTENANCE is an essential activity in order to guarantee a safe and stable load protection. GTEC shows maximum care about this topic, providing the best service in terms of experience, instrumentation and safety level.



The **TECHNICAL SUPPORT** service, delivered through the dedicated Help Desk platform, guarantees prompt answers to customers' requests and allows them to directly schedule maintenance activities.



The partnership between GTEC and its customers gets consolidated through the **TRAINING SESSIONS** proposal for technical staff, so that each user can operate on the UPSs with maximum consciousness and safety.



Also, in the GTEC Service offers, a **PROJECT CONSULTING** team is available, in order to provide the best solution according to the designer's needs.

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