EnerTech

UNINTERRUPTIBLE POWER SUPPLIES

1 - 3 kVA

NETZ+

Netz / Netz+ series is the new generation of small power UPS by Enertech. Both input and output are single phase and output power factor is 0.9. The efficiency of this UPS is very high, it can achieve considerable power saving and reduce total cost of ownership in result.

GENERAL SPECIFICATIONS

- Online double conversion
- Wide input voltage range (110-300Vac)
- Input power factor 0.99 (With PFC)
- Output power factor 0.9
- Generator compatible
- Maximum charging current 12A (Long run models)
- Charging current can be set by LCD (Long run models)
- Selectable charging current 1A (2A if 2 strings of internal battery) for internal battery (Short run models)
- 50Hz/60Hz frequency converter mode
- Selectable output voltage: 200, 208, 220, 230, 240Vac
- Emergency power off function (EPO) - Optional
- Eco mode operation for energy saving (ECO)
- USB / RS232 multiple communications
- SNMP / Relay Card (Optional)
- Smart battery charging design for optimized battery performance
- Support lithium battery and BMS
- Low priority load disconnection function
- Smart battery load charging design for optimizing battery performance

Absolute protection

The UPS systems of the Netz / Netz+ series guarantee highest protection and highest quality of care for all kinds of applications, especially mission-critical applications such as security systems and electro medical devices, and Industrial and telecommunication processes as well.

Netz / Netz+ is an uninterruptible double converter online system of class VFI SS 111 according to IEC (EN-62040-3). The power range of Netz / Netz+ is from 1kVA to 10kVA.

Easy source

Netz / Netz+ increases efficiency and simplifies supply of the UPS by power generators.

In addition, the losses in the system and in the windings, and the corrected power factor and eliminated harmonics, which are also generated by loads and the UPS itself, has been reduced in this series.

Power continuity

Enertech has been developing for many years, several solutions to meet different requirements and solve problems in the field critical applications there.

Enertech offers adaptable High level solutions of availability, which is different plant structures and the different security levels to adjust.

Enertech produces resilient UPS systems that are capable to solve a variety of faults in components and systems compensate without any interrupt to the continuous supply of the consumer.

This is accomplished by installing redundant elements and through careful planning to remedy the general points of failure, to carry out planned maintenance and monitoring the operating and environmental parameters. The employees of the technical services are ready to give you advice and provide solutions for your projects.

Flexibility

Netz / Netz+ series is suitable for every type of application, from IT to medical units, and industrial conditions. Thanks to the large selection of options, complex systems can be implemented that ensure maximum availability of particularly critical consumers.

Battery protection system (BPS):

Maximum protection of the batteries is normally achieved by the rectifier; in the event of a power failure, the UPS uses this energy source to supply its own consumers. An effective battery management system is therefore essential to ensure the desired protection in an emergency.

EASY INSTALLATION

Very little space is required to install Netz / Netz+. In addition, installing internal serials does not require any specialization and electrical acknowledgment, just plug in, and use the UPS backward outlets.

Special solutions

The UPS can be adapted to the specific requirements of the application. Contact our technicians, for specifications and special solutions that are not listed in the catalog.

Advanced communication

- Compatible with SNPM for remote monitoring.

- Advanced communication, multi-platform for all operating systems and network environments. Monitoring and shutdown through Power-Shield software is included, with SNMP protocol, for operating systems Windows 2008, Vista, 2003, XP, Linux, Mac OS X, Sun Solaris Linux, and other systems.

- The UPS is equipped with a cable for direct connection to a PC (plug and play)

- Double serial interface RS232

- Also there is a USB connection port for using with monitoring systems which do not have RS232 ports.

OPTIONS

- Emergency Power Off (EPO)

- SNMP card for monitoring system

- Relay Card

TECHNICAL SPECIFICATIONS

MODEL	1kVA S	1kVA L	2kVA S	2kVA L	3kVA S	3kVA L
Capacity (VA/Watts)	1000VA/9000W		2000VA/1800W		3000VA/2700W	
Phase	single phase with ground with					
INPUT						
Nominal Voltage	200/208/220/230/240Vac					
Voltage Range	110VAC – 300VAC ±5%					
Input voltage Range	110~300Vac @ 60%load , 160~300Vac @ 100% load					
Frequency	40~70Hz					
Power factor	0.99					
Generator input	Support					
OUTPUT						
Output voltage	200/208/220/230/240Vac					
Power Factor	1.0					
Voltage Regulation	±1%					
Frequency	(50/60±0.1)Hz					
Crest Factor	3:1					
(THDv)	≤2% THD (line load), ≤4% THD (Non-linear load)					
Waveform	pure Sinewave					
Transfer Time	Zero					
EFFICIENCY						
AC Mode	88%		92%		92%	
Battery Mode	85%		88%		90%	
BATTERY						
Battery Type	12V / 9AH	-	12V / 9AH	-	12V / 9AH	-
Numbers	2	2 | 3	4	4 | 6	6	6 | 8
Typical recharging time (Standard mode)	4 hours recover to 90% capacity					
Charging current (max)	1A or 2A	12A max	1A or 2A	12A max	1A or 2A	12A max
SYSTEM FEATURES						
Short circuit	Hold whole system					
Overheat	line mode: switch to bypass; backup mode: shut down UPS immediately					
Battery low	Alarm and switch off					
EPO(optional)	shut down UPS immediately					
Audible & Visual alarm	line failure, Battery low, Over load, System fault					
Communication	USB,RS232,SNMP card (optional), Relay card (optional)					
PHYSICAL						
Dimension W×D×H (mm)	440*325*86.5		440*460*86.5	440*435*86.5	440*600*86.5 /440*460*131	440*435*86.5
Net Weight (kg)	11.3	5.6	10.1	8.3	26.2/25.8	8.6
ENVIRONMENT						
Operating temperature	0~40˚c					
Storage temperature	-25˚c~55˚c					
Humidity range	20~90% RH @ 0~40˚C (Non-condensing)					
Altitude	<1500m					
Noise level	less than 50dBA at 1 Meter					
STANDARD						
Safety	IEC/EN62040-, IEC/EN60950-1					
EMC	IEC/EN62040-2, IEC61000-4-2, IEC61000-4-3, IEC61000-4-4, IEC61000-4-5, IEC61000-4-6, IEC61000-4-8					