EnerTech
UNINTERRUPTIBLE POWER SUPPLIES

1 phase in / 1 phase out

1 - 3 kVA

AKTIV

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

Easy source

Aktiv / Aktiv+ 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

Aktiv / Aktiv+ 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 Aktiv / Aktiv+. 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

EnerTech
UNINTERRUPTIBLE POWER SUPPLIES

TECHNICAL SPECIFICATIONS

MODEL		1kVA S	1kVA L	2kVA S	2kVA L	3kVA S	3kVA L
Capacity (VA/Watts)		1000VA / 900W		2000VA / 1800W		3000VA / 2700W	
INPUT							
Nominal Voltage		208/ 220/230/240Vac (L+N+PE)					
Voltage Range		110~300Vac					
Frequency Range		50Hz：45~55Hz，60Hz： 55-65Hz Auto Sensing					
Power Factor		0.99					
OUTPUT							
Output Voltage		208/220/230/240Vac:230Vac (Default)					
Power Factor		0.9 (1 is optional)					
Voltage Regulation		±1%					
Frequency		Synchronized Range					
Crest Factor		3:1					
(THDv)		≤2% with linear load / ≤4% with non-linear load					
Waveform		Pure Sinewave					
Transfer Time		Utility to Battery: 0ms; Utility to Bypass: 4ms (Typical)					
Efficiency		88%		92%		92%	
BATTERY							
Battery Type		Sealed Lead Acid VRLA Batteries					
DC Voltage		24VDC – 36VDC (optional)		48VDC – 72VDC (optional)		72VDC – 96VDC (optional)	
Battery Number		2 × 9AH (3 Optional)		4 × 9AH (6 Optional)		6 × 9AH (8 Optional)	
Maximum Charging Current (A) *		1A	12A	1A	12A	1A	12A
PROTECTION							
Overload Capacity		105%-110% for 10min / 110%-130% for 1min / 130%-150% for 30 second					
Other Protections		Short Circuit / Over Heat / Battery Low / Over Voltage					
Alarms		Line Failure / Battery Low / Over Load / System Fault					
BY-PASS		>150% :UPS transfer to bypass when utility is normal					
PHYSICAL ENVIRONMENT							
Dimension (W×H×D)	S	144×209×293		144×209×309		191×337×460	
	L	144×209×293		144×209×309		144×209×309	
Weight (kg)		9.8	4	17	6.7	27.6	7.3
Temperature		0℃～40℃					
Humidity Range		0～95% (Non-condensing)					
Altitude		< 1500m					
Noise Level		<50dB @ 1Meter					
STANDARDS							
Safety		IEC/EN62040-1,IEC/EN60950-1					
EMC		IEC/EN62040-2 IEC61000-4-2 / IEC61000-4-3 / IEC61000-4-4 / IEC61000-4-5 / IEC61000-4-6 / 1EC610000-4-8					