

# EUFO SERIES



High-Level Line-Interactive UPS

1.1KVA-3KVA

## Applications:



Work-Stations



Rack server



Network device



Multiple communication

## Professional Line-Interactive UPS Solutions

Eufo series rating is from 1.1kVA to 3.0kVA and implemented protect functions for power failure, surge overvoltage and brownout. Rack/Tower with easy-shift LCD design is flexible for installation. Moreover, this series built-in Efficiency corrective Optimizer (ECO) that the efficiency is up to 98% for more energy saving. The application is suitable for networking, telecom, server and mission-critical applications.

## GENERAL FEATURES

- Pure sine wave
- Output power factor 0.9
- Microprocessor control optimizes reliability
- User-friendly and easy-shift LCD design
- Rack/Tower 2 in 1 design
- Built-in boost and buck AVR
- Programmable power management outlets
- ECO operation for energy saving (Efficiency Corrective Optimizer)
- Emergency power off function (EPO)
- RJ45 Surge protector
- Hot-swappable battery design
- Built-in internal battery & extend battery function
- Multiple communication available

## Microprocessor-based line interactive design

Eufo series UPS is designed with microprocessor controller for fast response to power disturbances.

## Pure sine wave output

With pure sine wave output, Eufo series guarantees compatibility for all kinds of loads. It's perfect power protection for versatile applications such as networking, telecom and other mission-critical applications.

## User-friendly and easy-shift LCD display

The front panel digital display can be easily shifted through LCD setting to suit the installation format, vertically stand or flat wall mount.



## Rack / Tower design

Eufo series is designed in true universal-mount case. It can be easily installed as floor-standing tower or in 19-inch rackmount bracket.



## Built-in boost and buck AVR

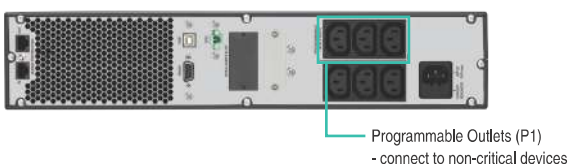
With built-in voltage regulator, the UPS will maintain regulated nominal output without using battery power during brownouts and overvoltages.

## Output power factor 0.9

Eufo series is a high-density UPS with output power factor 0.9 to provide higher performance and efficiency to critical applications.

## Programmable power management outlets

With programmable power management outlets, users can easily and independently control load segments. During power failure, this feature enables users to extend battery time to missioncritical devices by shutting down the non-critical devices.



## ECO operation for energy saving (Efficiency Corrective Optimizer)

The ECO function allows cost-effective operation of UPS Systems as high as 97%. In this operation mode, load is supplied by the mains. When battery is fully charged, the fan will stop running for energy saving. In the event of a mains failure, the inverter takes over the load and provides supply continuity to the connected systems.



## Emergency Power Off Function (EPO)

This feature can secure the personnel and equipment in case of fires or other emergencies.

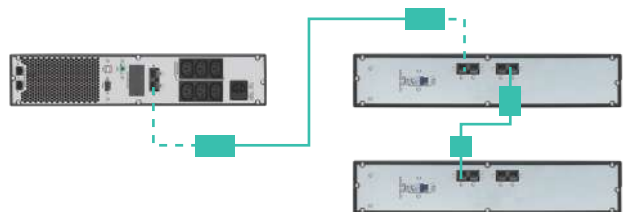
## Hot-swappable battery design

This design ensures clean and uninterruptible power to protect equipment during battery replacement.



## Extend battery capacity Function

Eufo series offer extend battery capacity function for long back up time purpose.



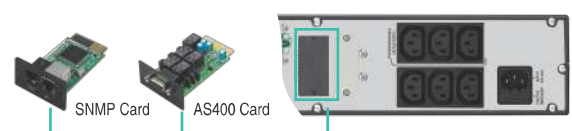
## RJ-45 Surge protector

Eufo Series implements RJ-45 Surge Protection ports to prevent Ethernet network damage caused by lightning or ground surges.

## Multiple communication

- USB port
- RS-232 port
- Intelligent slot for SNMP or Relay Card (option)

Also offer free monitoring software, ViewPower, downloaded from the internet. This advanced and networking software supports various operating systems and multiple languages.



## TECHNICAL SPECIFICATIONS

MODEL	EU-1101TS	EU-1102TS	EU-1103TS	
PHASE	Single phase with ground			
CAPACITY	1100 VA / 990 W	2000 VA/ 1800 W	3000 VA/ 2700 W	
<b>INPUT</b>				
Voltage Range	208/220/230/240 VAC			
Acceptable Voltage Range	162-290 VAC			
Frequency Range	50Hz/60Hz (Auto sensing)			
<b>OUTPUT</b>				
Output Voltage	208/220/230/240VAC			
Voltage Regulation	± 1.5% (Before battery Alarm)			
Frequency Range(Batt. Mode)	50 Hz or 60 Hz ± 1 Hz			
Current Crest Ratio	3:1 (max.)			
Harmonic Distortion	2% max @ 100% Linear Load; 5% max @ 100% non linear load (Before low battery alarm)			
Transfer Time	2-6ms (typical), 10ms max.			
Waveform (Batt. Mode)	Pure Sinewave			
<b>EFFICIENCY</b>				
ECO Mode	97%			
Boost/Buck Mode	95%			
Battery Mode	90%	91%	92%	
<b>BATTERY</b>				
Standard Model	Battery Type & Numbers	12 V/9 Ah x 2	12 V/9 Ah x 4	12 V/9 Ah x 6
	Charging Current (max.)	1.5 A		
	Charging Voltage	27.4 VDC ± 1%	54.8 VDC ± 1%	82.1 VDC ± 1%
	Typical Recharge Time	4 hours recover to 90% capacity		
<b>ALARM</b>				
Battery Mode	Sounding every 10 seconds			
Low Battery	Sounding twice every second			
Overload	Sounding every second			
Fault	Continuously sounding			
<b>AC INPUT &amp; OUTPUT CONNECTORS</b>				
AC Input Connector	1 x IEC 320 C14	1 x IEC 320 C14	1 x IEC 320 C20	
AC Output Connector	8 x IEC 320 C13	8 x IEC 320 C13	8 x IEC 320 C13 / 1 x IEC C19	
<b>STANDARDS</b>				
Safety / EMC	IEC 62040-1 (safety) / IEC-62040-2 (EMC) / CE			
<b>PHYSICAL</b>				
Standard Model	Dimension, D x W x H(mm)	410 (D) x 438 (W) x 88 (H)	510 (D) x 438 (W) x 88 (H)	630 (D) x 438 (W) x 88 (H)
	Net Weight (kgs)	13.4	21.5	29.3
<b>ENVIRONMENT</b>				
Operation Humidity	0-90% RH @ 0-40°C (Non-condensing)			
Noise Level	Less than 45 dBA @ 1 Meter			
<b>MANAGEMENT</b>				
Smart RS-232 / USB	Supports Windows 2000/2003/XP/Vista/2008/7/8/10, Linux and MAC			
Optional SNMP	Power management from SNMP manager and web browser			

Product specifications are subject to change without further notice



Backup Time Table for Eufo Series

Model	Battery Bank	Backup Time with Load (Min)			
		25%	50%	75%	100%
EU-1101TS	Internal battery only (24V:12V 9Ah x 2)	24.5	10.0	5.5	3.0
	+ 1 BB-24/18RT ( 4 x 9Ah Batteries)	86.0	39.0	24.5	16.5
EU-1102TS	Internal battery only (48V:12V-9Ah x 4)	24.5	10.0	5.5	3.0
	+ 1 BB-48/18RT ( 8 x 9Ah Batteries)	86.0	39.0	24.5	16.5
EU-1103TS	Internal battery only (72V:12V-9Ah x 6)	24.5	10.0	5.5	3.0
	+ 1 BB-72/18RT (12 x 9Ah Batteries)	86.0	39.0	24.5	16.5

