



# Professional On-Line & Line-Interactive UPS Solutions

## True Double Conversion 1.0kVA - 20kVA & 30kVA - 800kVA

Output Power Factor 0.9 - Rack/Tower 2 in 1 Design - LCD Display - Perfect Battery Pack

### Eufo Series Line Interactive UPS

1.1 kVA/2.0 kVA/3.0 kVA – Rack/Tower 2 in 1 Design  
LCD Display / Single phase - Batter Pack Solution / Pure Sinwave

Rating from 1.1 kVA to 3.0 kVA, Eufo series provides server-grade full power protection from power failure, spikes and surge in small footprint with enhanced output power factor 0.8. Combining flexible rack/tower form factor and easy-shift LCD panel design, this series is perfect for networking, telecom, server and mission-critical applications

#### Features & Advantages

- Pure sine wave output
- Output power factor 0.8
- User-friendly and easy-shift LCD design
- Rack/Tower 2 in 1 design
- Microprocessor-based line interactive design
- Built-in boost and buck AVR
- Programmable power management outlets
- ECO operation for energy saving (Efficiency Corrective Optimizer)
- Without internal battery, works only with external battery pack.
- Emergency power off function (EPO)
- Hot-swappable battery design
- Multiple communication available
- 3 years warranty for UPS, 2 years warranty for battery pack.
- Replacement in advance in service case.
- Warranty Extension & Express Service as optional.



Eufo 1.1/2/3 kVA with Battery Bank



Eufo 1.1/2/3 kVA Rack



1.1 kVA rear view



2.0 kVA rear view



3.0 kVA rear view



Battery Pack rear view

#### Battery Box/Pack for Eufo Series 1.1 - 3.0 kVA UPS



**BB-24/18RT** (380 x 438 x 88 mm 2U)  
**BB-48/18RT** (480 x 438 x 88 mm 2U)  
**BB-72/18RT** (600 x 438 x 88 mm 2U)

Battery Box	Capacity	Batteries	Backup Time 100% Load (Min)
BB-24/18RT	24V / 18Ah	4 pcs	25 Min (1.1 kVA UPS)
BB-48/18RT	48V / 18Ah	8 pcs	10 Min (2.0 kVA UPS)
BB-72/18RT	72V / 18Ah	12 pcs	10 Min (3.0 kVA UPS)

BB-24/18RT : Suitable for Eufo series 1.1 kVA UPS, Battery Pack Voltage :24 V  
BB-48/18RT : Suitable for Eufo series 2.0 kVA UPS, Battery Pack Voltage :48 V  
BB-72/18RT : Suitable for Eufo series 3.0 kVA UPS, Battery Pack Voltage :72 V  
Backup Time : Please see the following Backup Time Table  
RT : Suitable for Custos 9X+ Rack & Tower UPS, 2 in 1 Design

#### Backup Time Table for Eufo Series 1.1 - 3.0 kVA UPS

UPS Type	Battery Box	Backup Time	Backup Time with Load (Min)				
			100%	75%	50%	25%	
EU-1101RS Rack 1.1 kVA	+ 1xBB-24/18RT (4 x 9Ah Batteries)	Backup Time	25	36	57	112	
	+ 2xBB-24/18RT (8 x 9Ah Batteries)	Backup Time	60	86	139	257	
	EU-1101TS Tower 1.1 kVA	+ 3xBB-24/18RT (12 x 9Ah Batteries)	Backup Time	98	152	221	358
		+ 4xBB-24/18RT (16 x 9Ah Batteries)	Backup Time	153	218	280	512
EU-1102RS Rack 2.0 kVA	+ 1x48/18RT (8 x 9Ah Batteries)	Backup Time	10	17	28	60	
	+ 2x48/18RT (16 x 9Ah Batteries)	Backup Time	26	40	62	130	
	EU-1102TS Tower 2.0 kVA	+ 3x48/18RT (24 x 9Ah Batteries)	Backup Time	44	60	100	230
		+ 4x48/18RT (32 x 9Ah Batteries)	Backup Time	69	94	163	288
EU-1103RS Rack 3.0 kVA	+ 1xBB-72/18RT (12 x 9Ah Batteries)	Backup Time	10	17	28	58	
	+ 2xBB-72/18RT (24 x 9Ah Batteries)	Backup Time	26	41	66	131	
	EU-1103TS Tower 3.0 kVA	+ 3xBB-72/18RT (36 x 9Ah Batteries)	Backup Time	43	62	107	225
		+ 4xBB-72/18RT (48 x 9Ah Batteries)	Backup Time	68	92	167	270

P	Model	kVA	Form	Datasheet	Brochure	Manual	SNMP Card	Price Info
1	EU-1101-RS	1.1 kVA	Rack					
2	EU-1101-TS	1.1 kVA	Tower					
3	EU-1102-RS	2.0 kVA	Rack	PDF	PDF	PDF	Go to SNMP	Pricelist
4	EU-1102-TS	2.0 kVA	Tower					
5	EU-1103-RS	3.0 kVA	Rack					
6	EU-1103-TS	3.0 kVA	Tower					

Specification			
Model	EU-1101RS/TS	EU-1102RS/TS	EU-1103RS/TS
Phase		Single Phase with ground	
Capacity	1.1 kVA / 0.88kW	2.0 kVA / 1.6kW	3.0 kVA / 2.4kW

Input	
Voltage Range	110/120 VAC or 208/220/230/240 VAC
Acceptable Voltage Range	81 - 145VAV or 162-290 VAC
Frequency Range	50Hz/60Hz (auto sensing)

Output	
Output Voltage	110/120 VAC or 208/220/230/240VAC
Voltage Regulation	± 3% (before Battery Alarm)
Frequency range (Batt. Mode)	50 Hz ± 0.2 Hz or 60 Hz ± 0.2 Hz
Current Crest Ratio	3:1 (max.)
Harmonic Distortion	8% max @ 100% linear load ; 15% max @ non linear mode
Transfer Time	2-6ms (typical), 10ms max.
Waveform (Batt. Mode)	Pure Sinewave

Efficiency	
AC Line Mode	88%
Boost/Buck Mode	90%
Battery Mode	85%

Battery				
Standard Model	Battery Type	24 V	48 V	72 V
	Numbers	2	4	6
	Typical Recharge Time	4 hours recover to 90% capacity		
	Charging Current (max.)	1.0 A		
Long-Run Model	Float Charging Voltage	27,4 VDC ± 1%	54,6 VDC ± 1%	82,1 VDC ± 1%
	Battery Type	24 V	48 V	72 V
	Numbers	Depending on the capacity of external batteries		
	Typical Recharge Time	Depending on the capacity of external batteries		
	Charging Current (max.)	4.0 A or 8.0 A		
	Float Charging Voltage	27,4 VDC ± 1%	54,8 VDC ± 1%	82,1 VDC ± 1%

Indicators	
LCD Display	Load Level, Battery level, AC Mode, Battery Mode, Input Voltage, Output Voltage, Low Battery, Overload and Fault Indicator

Alarm	
Battery Mode	Sounding every 10 seconds
Low Battery	Sounding every second
Overload	Sounding twice every second
Fault	Continuously sounding

AC Input & Output Connectors			
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	6 x IEC 320 C13 / 1 x IEC C19

Standards	
IEC 62040-1 (Safety)	YES
IEC 62040-2 (EMC)	YES
CE	YES

Physical dimensions				
Standard Model	Dimension (mm)	380 (D) x 438 (W) x 88 (H)	480 (D) x 438 (W) x 88 (H)	600 (D) x 438 (W) x 88 (H)
Long-Run Model	Net Weight (kgs)	14,23	23,1	32,24
Standard Model	Dimension (mm)	380 (D) x 438 (W) x 88 (H)	480 (D) x 438 (W) x 88 (H)	600 (D) x 438 (W) x 88 (H)
Long-Run Model	Net Weight (kgs)	10,8	14,0	18,0

Environment	
Humidity	20-90% RH @ 0-40°C (non-condensing)
Noise Level	Less tahn 45dBa @ 1 Meter

Management	
Smart RS-232 / USB	Supports Windows 2000/2003/XP/Vista/2008/7/8, Linux, Unix, and MAC
Optional SNMP	Power management from SNMP manager and web browser

\*Product specifications are subject to change without further notice.