

# Dataprodukter utöver det vanliga



### **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



## DIREARONIK

## **Eufo Series**

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#### 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.



Programmable Outlets (P1)
- connect to non-critical devices

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

The ECO function allows cost-effective operation of UPS Systems as high as 98%. 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 protected 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		20104115	20104116	20104117			
PHASE		Single phase with ground					
CAPACITY		1100 VA / 990 W	2000 VA/ 1800 W	3000 VA/ 2700 W			
NPUT							
/oltage Range			208/220/230/240 VAC				
cceptable Volta	ge Range		162-290 VAC				
requency Range			50Hz/60Hz (Auto sensing)				
DUTPUT Dutput Voltage			208/220/230/240VAC				
Voltage Regulation							
Frequency Range(Batt. Mode)		± 1.5% (Before battery Alarm) 50 Hz or 60 Hz ± 1 Hz					
			3:1 (max.)				
Current Crest Ratio							
Harmonic Distortion		2% max @ 100% linear Last ; 5% max @ 100% non linear load (Before low battery alarm)					
Transfer Time			2-6ms (typical), 10ms max.				
Waveform (Batt. Mode)			Pure Sinewave				
			0724				
CO Mode			97%				
oost/Buck Mod	2		95%				
attery Mode		89%	91%	92%			
ATTERY							
	Battery Type & Numbers	12 V/9 Ah x 2	12 V/9 Ah x 4	12 V/9 Ah x 6			
tandard	Charging Current (max.)		1.5 A				
1odel	Charging Voltage	27.4 VDC ± 1%	54.8 VDC ± 1%	82.1 VDC ± 1%			
	Typical Recharge Time		4 hours recover to 90% capacity				
Long-Run	Charging Current (max.)		1A/2A/4A/6A/8A				
Nodel	Charging Voltage	27.4 VDC ± 1%	54.8 VDC ± 1%	82.1 VDC ± 1%			
ALARM							
Battery Mode			Sounding every 10 seconds				
ow Battery.	SSounding twice every second						
Dverload			Sounding every second				
Fault			Continuously sounding				
	UT CONNECTORS		, 0				
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 C1			
STANDARDS							
afety / EMC			IEC 62040-1 (safety) / IEC-62040-2 (EMC) / CE				
PHYSICAL			12C 02040-1 (Salety) / 12C-02040-2 (EWIC) / CE				
	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)			
Standard Model	Net Weight (kgs)	13.4	21.5	29.3			
Long-Run Model	Dimension, D x W x H(mm)	410 (D) x 438 (W) x 88 (H)	410 (D) x 438 (W) x 88 (H)	410 (D) x 438 (W) x 88 (H)			
	Net Weight (kgs)	9.0	10.8	11.9			
NVIRONMENT							
Operation Humidity		0-90% RH @ 0-40°C (Non-condensing)					
loise Level			Less than 45 dBA @ 1 Meter				
MANAGEMENT							
Smart RS-232 / U	SB	Supports W	/indows 2000/2003/XP/Vista/2008/7/8/10, Linu	ux and MAC			
Optional SNMP		Power	management from SNMP manager and web br	owser			
	ns are subject to change without furth						

Product specifications are subject to change without further notice

Backup Time Table for Euto Series									
		Backup Time with Load (Min)							
	Battery Bank	25%	50%	75%	100%				
20104114	internal battery	22.80	8.65	4.95	3.00				
	+ 1 BB-24/18RT ( 4 x 9Ah Batteries)	76.13	32.79	20.00	13.00				
	+ 2 BB-24/18RT ( 8 x 9Ah Batteries)	134.00	59.28	36.20	25.00				
20104115	internal battery	24.50	11.00	5.60	4.00				
	+ 1 BB-48/18RT ( 8 x 9Ah Batteries)	97.00	47.00	27.50	20.00				
	+ 2 BB-48/18RT (16 x 9Ah Batteries)	178.00	88.00	53.00	38.00				
20104116	internal battery	27.25	11.50	6.60	4.00				
	+ 1 BB-72/18RT (12 x 9Ah Batteries)	106.50	46.60	28.37	20.50				
	+ 2 BB-72/18RT (24 x 9Ah Batteries)	197.00	86.50	53.05	39.00				



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