



ELEKTRA SERIES

I.T GRADE ONLINE DOUBLE CONVERSION UPS
1KVA ~ 10KVA (1/1)

 Mission Critical &
I.T Grade UPS

ONLINE DOUBLE CONVERSION UPS (Elektra Series)

DP Electronics (Deutsche Power Co., Limited)



Elektra Series (1/1, H.F) (1KVA~10KVA)

Elektra Series H.F range of On Line Double Conversion UPS's uses microprocessor control technology intended in particular for users of critical systems that require reliability and high performance at the same time (telecommunications equipment, critical industrial applications, etc.).

Elektra uses technology which delivers a perfect sinusoidal output current and provides effective protection of critical devices.

Elektra Series UPS's provides an upgraded power factor reaching 0.9 for single phase systems, therefore offer higher performance and improved efficiency for vital applications.

UPS status can be monitored at a glance on an intuitive LCD screen. Elektra Series offer redundant and capacity parallel UPSs, the right solution for all applications requiring a perfect and uninterrupted power supply.



This is a green product that comply with the products pollution control management measures, the product under normal use, will not harm the environment and personals using it.



ONLINE DOUBLE CONVERSION UPS (Elektra Series)

Active Input Power Factor Correction (Pfc)

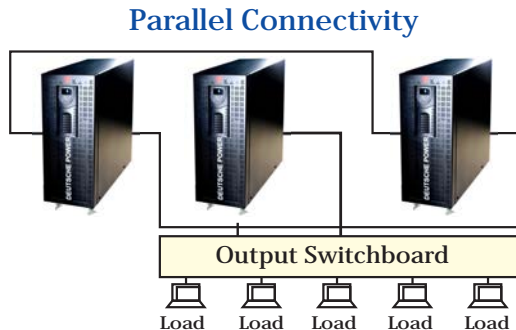
With digital control of active power factor correction technology, enables high input power factor 0.99 above as to avoid contamination of electrical network environment, saving energy and reducing system costs.

Compatible With Generators

Input voltage and frequency range is wide so can effectively works on generator sets and thus provide pure, safe and stable power.

Power Factor 0.9

Adapting the current most electrical devices type it enhances the ability for supporting load of the machine. 0.9 power factor.



Parallel Configuration

N+X is currently the most reliable power supply structure. N represents the minimum required UPS number that the total load needs; X represents the redundant UPS number. The bigger the X is, the higher reliability of the power system is. For occasions where reliability is highly required, N+X is the optimal mode up to 3 of them can be connected in parallel to support output power sharing and power redundancy.

DSP Digital Control Technology

DSP advanced digital control technology UPS, increases performance, stability, quality and reliability.

Zero Switching

The transfer time when UPS transferred to the battery or vice versa is zero, effectively guarantee the load operation security and reliability.

Wide Input Voltage & Frequency Range

Very wide input voltage and frequency ranges, even in harsh electrical environments will work in stable mode, which reduces the number of battery discharge resulting in extended battery life.

Application

Elektra range provide a combination of outstanding protection features and flexibility, making it the right choice for applications demanding optimum reliability and energy efficiency. It systems such as servers, networking devices, workstations, storage systems and a long list of other IT equipment find the right protection element in Elektra, especially, when combined with Elektra powerful Connectivity suite.

VoIP equipment, railway control systems, medical laboratory instrumentation, and many other industrial applications may also benefit from the consistent and high quality power provided by the Elektra, thanks to the robustness, precision and high efficiency provided.

Powerful Extensibility Features

Smart slot provides rich scalable features, USB can be selected, AS400 card, SNMP card, RS485 card and environmental monitoring card.

Standards

FOR 1/2/3 KVA UPS products comply with:

EN50081-1 / EN55022 Class B - EN50082-1 / IEC801-2 LEVEL 4
IEC801-3 LEVEL 3 - IEC801-4 LEVEL 4 - IEC801-5 LEVEL 2
(1) 1000VA, 2000VA, and 3000VA (220/230V-version) products comply with: FCC Part 15 Class A - IEC801-5 Level 2
(2) The products of 3000VA (220/230V-version) are Class A digital devices.

Safety : Comply with GB4943-2001, IEC62040-1 and CE requirements.

Industry Standard :Comply with EN62040,YD/T 1095-2000 requirements.

FOR 6K/10K/15K UPS products comply with:EN62040-1-1 (Safety).
Conducted Emission: EN50091-2: Limits for UPS which have a rated output current exceeding 25A (25~100A)

Radiated Emission: EN50091-2: Limits for UPS which have a rated output current exceeding 25A (25~100A)
EMSEN61000-4-2(ESD).....Level 4
EN61000-4-3(RS).....Level 3
EN61000-4-4(EFT).....Level 4
EN61000-4-5(Lightning Surge).....Level 4
EN61000-2-2 (Immunity to low frequency signal)

ONLINE DOUBLE CONVERSION UPS (Elektra Series)

TECHNICAL SPECIFICATION FOR SINGLE PHASE IN & SINGLE PHASE OUT

MODEL

	ES101	ES101S	ES102	ES102S	ES103	ES103S	ES106	ES106S	ES110	ES110S
RANGE	1KVA/900W		2KVA/1800W		3KVA/2700W		6KVA/5400W		10KVA/9000W	
INPUT										
Input system	Single Phase + Neutral + Ground									
Rated Voltage	200 / 208 / 220 / 230 / 240VAC									
Voltage Range	110VAC~300VAC					120VAC~276VAC				
Frequency	40~70Hz									
Power Factor	≥0.99									
Voltage Range Bypass	175~290VAC ±15%									
OUTPUT										
Output system	Single Phase & Earth ground					Single Phase + Nutral + Ground				
Rated Voltage	200 / 208 / 220 / 230 / 240VAC									
Power Factor	0.9 / 1.0									
Voltage Precision	±1%									
Frequency Normal	1. The output frequency synchronizes with the input frequency when the input frequency is in the range of 47~53Hz or 57~63 Hz									
Frequency Battery	50 / 60 ± 0.1%									
Overload Capacity	105%~110%:UPS transfer to bypass after 10 minutes when the utility is normal 110%~130%:UPS transfer to bypass after 1 minutes when the utility is normal 130%~150%:UPS transfer to bypass after 5 minutes when the utility is normal >110%:UPS transfer to bypass immediately when the utility is normal									
Transfer Time	0ms (Normal mode<----->Battery mode), <4ms (Normal mode <-----> Bypass mode)									
Crest Factor	3:1									
BATTERY										
Voltage	36VDC		72VDC		96VDC		192/216/240VDC			
Typical Recharge Time	4 hours recover to 90% capacity									
Charging Amperes	1A /2A ~ 12A Auto Sensing									
GENERAL										
Short Circuit	System Freezes									
Over Heat	Line Mode: Switch to bypass. Backup Mode: Shut down UPS immediately									
Battery Low	Alarm and switch off									
Ambient Temp.	0°C~40°C									
Humidity	20%~90% (No condensation)									
Altitude	Lower than 1000m: no detracting; Over 1000m 1% detracting for every 100m rise									
Stroge Temp.	-15°C~45°C									
Noice Level	<50dBA									
Communication Interface	Rs232, USB, (SNMP, Parallel card, Relay card and RJ45 are optional)									
EPO (Optional)	Emergency Power Off									
Audible & Visual Alaram	Line Failure, Battery low, Over Load, System Fault									
DIMENSION TOWER TYPE										
Size WxHxD	144x229x350	144x229x350	190x328x424	190x328x424	190x328x424	190x328x424	260x570x717	260x570x717	260x570x717	260x570x717
Weight	11.5	6	24	12	28	12	90	35	93	38
DIMENSION RACK TYPE										
Size	2U		2U+2U (Battery Case)				5U+3U (Battery Case)			
Weight Kg	12Kg					30Kg				
STANDARDS										
Seafy	IEC/EN62040-1,IEC/EN60950-1									
EMC	IEC/EN62040-2,IEC6100-4-2,IEC61000-4-3,IEC61000-4-4,IEC61000-4-5,IEC61000-4-6,IEC61000-4-8									

DP Electronics (Deutsche Power Co. Limited) has a policy of continuous product development and improvement and therefore reserve the right to vary any information without prior notes.

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