



# ELEKTRA SERIES

I.T GRADE ONLINE DOUBLE CONVERSION UPS  
10KVA ~ 20KVA (3/1)

**Mission Critical &  
I.T Grade UPS**

# ONLINE DOUBLE CONVERSION UPS (Elektra Series)



## Elektra Series (10KVA~20KVA)

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 and 1 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.



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## Active Input Power Factor Correction (Pfc)

With digital control of active power factor correction technology, enables high input power factor 0.9 and 1 as to avoid contamination of electrical network environment, saving energy and reducing system costs.

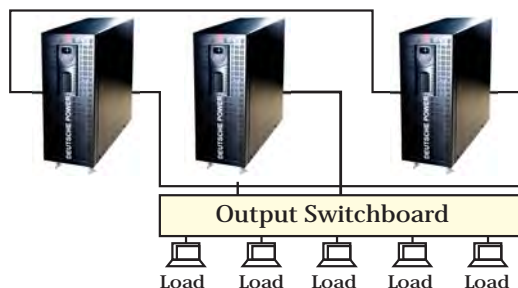
## Compatible With Generators

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

## Power Factor 0.9/1

Adapting the current most electrical devices type it enhances the ability for supporting load of the machine. 0.9 /1 power factor.

## Parallel Connectivity



## 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 - IEEE587 Class A  
(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)

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## TECHNICAL SPECIFICATION FOR THREE PHASE IN & SINGLE PHASE OUT

### MODEL

|  |        |        |        |
|--|--------|--------|--------|
|  | ES3110 | ES3115 | ES3120 |
|--|--------|--------|--------|

|       |  |  |  |
|-------|--|--|--|
| RANGE |  |  |  |
|-------|--|--|--|

|  |       |       |       |
|--|-------|-------|-------|
|  | 10KVA | 15KVA | 20KVA |
|--|-------|-------|-------|

|       |  |  |  |
|-------|--|--|--|
| INPUT |  |  |  |
|-------|--|--|--|

|              |                                |  |  |
|--------------|--------------------------------|--|--|
| Input System | Three Phase + Neutral + Ground |  |  |
|--------------|--------------------------------|--|--|

|               |                         |  |  |
|---------------|-------------------------|--|--|
| Rated Voltage | 3 X 400 VAC ( 3Ph + N ) |  |  |
|---------------|-------------------------|--|--|

|               |      |  |  |
|---------------|------|--|--|
| Voltage Range | ±20% |  |  |
|---------------|------|--|--|

|           |         |  |  |
|-----------|---------|--|--|
| Frequency | 50/60Hz |  |  |
|-----------|---------|--|--|

|              |      |  |  |
|--------------|------|--|--|
| Power factor | 0.99 |  |  |
|--------------|------|--|--|

|                         |                           |  |  |
|-------------------------|---------------------------|--|--|
| Voltage range of bypass | (120±5) VAC ~ (264±5) VAC |  |  |
|-------------------------|---------------------------|--|--|

|        |  |  |  |
|--------|--|--|--|
| OUTPUT |  |  |  |
|--------|--|--|--|

|               |                             |  |  |
|---------------|-----------------------------|--|--|
| Output System | Single Phase & Earth ground |  |  |
|---------------|-----------------------------|--|--|

|               |                           |  |  |
|---------------|---------------------------|--|--|
| Rated Voltage | 208 / 220 / 230 / 240 VAC |  |  |
|---------------|---------------------------|--|--|

|              |         |  |  |
|--------------|---------|--|--|
| Power factor | 0.9 & 1 |  |  |
|--------------|---------|--|--|

|                   |     |  |     |
|-------------------|-----|--|-----|
| Voltage precision | ±2% |  | ±1% |
|-------------------|-----|--|-----|

|                  |   |  |  |
|------------------|---|--|--|
| Frequency Normal | 1. The output frequency synchronizes with the input frequency when the input frequency is in the range of 46 Hz~54 Hz |  |  |
|------------------|---|--|--|

|                   |  |  |  |
|-------------------|--|--|--|
| Frequency Battery | 2. The output frequency is 50 Hz when the input frequency is not in the range of 46 Hz~54 Hz |  |  |
|-------------------|--|--|--|

|                    |  |  |  |
|--------------------|--|--|--|
| Over-load Capacity | 105%±5%<Load <125%±5% 50s transfer to bypass<br>125%±5%<Load <150%±5% 25s transfer to bypass<br>Load >150%±5% 300ms transfer to bypass |  |  |
|--------------------|--|--|--|

|               |  |  |  |
|---------------|--|--|--|
| Transfer Time | 0ms (Normal mode<----->Battery mode)<br><4ms (Normal mode <-----> Bypass mode) |  |  |
|---------------|--|--|--|

|              |     |  |  |
|--------------|-----|--|--|
| Crest Factor | 3:1 |  |  |
|--------------|-----|--|--|

|         |  |  |  |
|---------|--|--|--|
| BATTERY |  |  |  |
|---------|--|--|--|

|         |        |  |  |
|---------|--------|--|--|
| Voltage | 240VDC |  |  |
|---------|--------|--|--|

|          |        |  |                   |
|----------|--------|--|-------------------|
| Quantity | 20 Pcs |  | 20 Pcs x 2 String |
|----------|--------|--|-------------------|

|      |  |  |  |
|------|--|--|--|
| Type |  |  |  |
|------|--|--|--|

|                  |    |  |  |
|------------------|----|--|--|
| Charging Amperes | 7A |  |  |
|------------------|----|--|--|

|         |  |  |  |
|---------|--|--|--|
| GENERAL |  |  |  |
|---------|--|--|--|

|               |          |  |  |
|---------------|----------|--|--|
| 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 |  |  |
|----------|---|--|--|

|               |            |  |  |
|---------------|------------|--|--|
| Storage Temp. | -15°C~45°C |  |  |
|---------------|------------|--|--|

|                      |  |  |  |
|----------------------|--|--|--|
| DIMENSION TOWER TYPE |  |  |  |
|----------------------|--|--|--|

|                |                 |  |  |
|----------------|-----------------|--|--|
| Size (DxWxH)mm | 592 X 250 X 576 |  |  |
|----------------|-----------------|--|--|

|            |         |  |          |
|------------|---------|--|----------|
| Weight Kg. | 83 / 28 |  | 164 / 40 |
|------------|---------|--|----------|

DP Electronics e.K(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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