DP Electronics (Deutsche Power)

ELEKTRA SERIES

I.T GRADE ONLINE DOUBLE CONVERSION UPS

10KVA ~ 500KVA (3/3)

Mission Critical &
I.T Grade UPS

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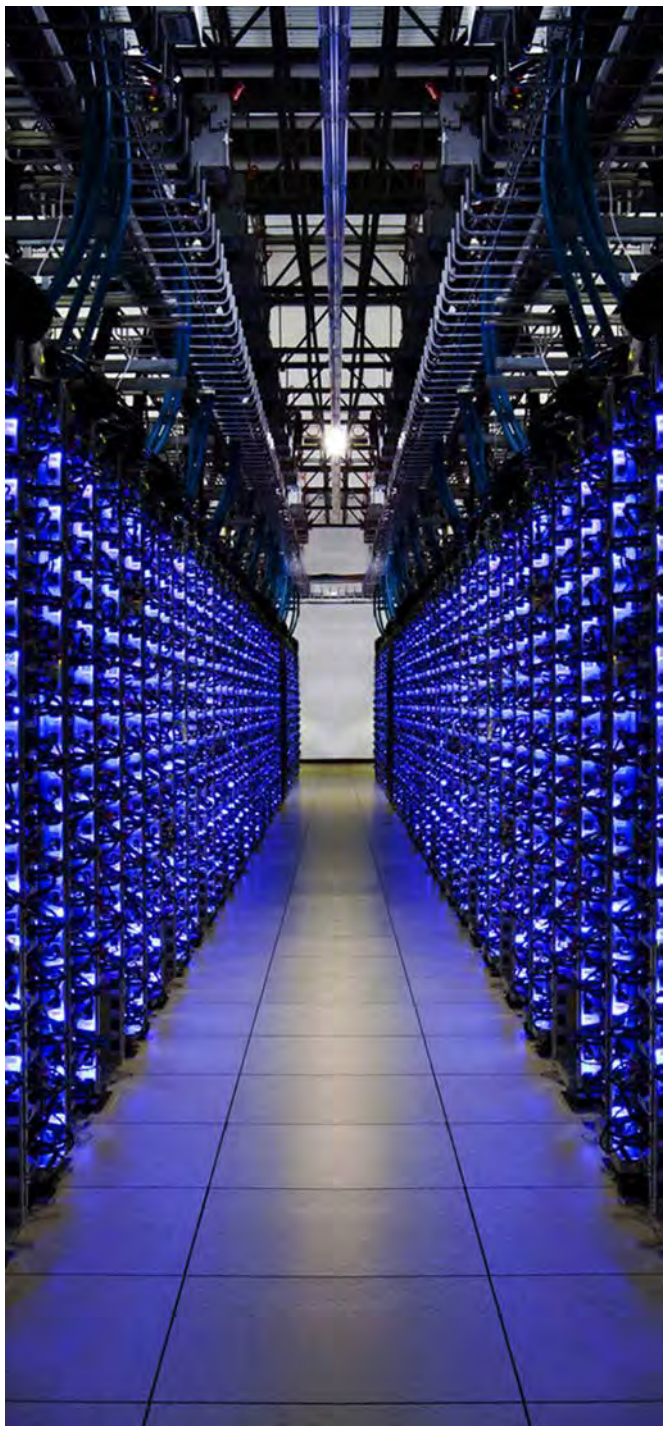

Elektra Series (3/3, H.F) (10KVA~500KVA)

Elektra Series I.T Grade On Line Double Conversion UPS represents the best solution that is both effective and environment friendly, it delivers and excellent integrated autonomy, reduced footprint and optimum input and output performances, guaranteeing reliable and flexible power.

Elektra Double conversion pure on-line three phase input and output UPS adopt double conversion technology, able to provide solutions to conditions like voltage instantaneous drop-off or damping concussion, high-voltage plus, voltage pulsation, surge voltage, harmonic distortion, and frequency fluctuation, guarantees a safe and reliable power.

UPS status can be monitored at a glance on an intuitive LCD screen.

Elektra Series offer redundant and capacity parallel Ups, 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 0.99 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 it can effectively works on generator and thus provide pure, safe and stable power.

Power Factor 0.9 / 1

The 0.9 & 1 Output Power Factor reaffirms your original Deutsche Power Elektra Series purchase by fully leveraging your existing UPS investment to accommodate today's and tomorrow's high power factor load requirements.

High-efficient, Energy Saving, Green Environmental Protection

The efficiency of the machine is as high as 94% and reaches over 98% in the ECO mode which can help to reduce the power loss of the UPS's IGBT, FM, intelligent rectifier and inverter technology, input power factor 0.99, & input current harmonic wave (THDi) is as low as 3%.

Excellent Overload Capacity

When higher protection required, the optional dust-proof accessories can help to increase the protection level in harsh environment and safeguard the UPS's security. Elektra series UPS provide a broader range of input voltage from 210VAC to 475VAC, which ensures to be applicable in the unpleasant grid environment of different power supply equipment like generator, with its extraordinary input frequency.

Zero Switching

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

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.

Systems such as servers, networking devices, workstations, storage systems and various IT equipment find the right protection element in Elektra Series, especially, when combined with Elektra Powerful Connectivity suite.

VolP 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.

Key Features

- Advance IGBT Rectifier technology, input power factor: 0/99
- Input THDi <3%
- The efficiency of the machines is as high as 94%.
- Connect parallel for maximum flexiblity and compatible to battery share in the parallel mode, which helps the customers to extend the system capacity with low cost.
- Intelligent management of battery charging and discharging.
- Lightning and surge protection, short circuit and overload protection.

Powerful Extensibility Features

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

Standards

Safety:
IEC/EN62040-1, IEC/EN60950-1. EMC IEC/ EN62040-2, IEC61000-4-2, IEC61000-4-3, IEC61000-4-4, IEC61000-4-5, IEC61000-4-6, IEC61000-4-8

Noise Suppression
Complies with EN62040~2

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I.T GRADE ONLINE DOUBLE CONVERSION UPS (Elektra Series)

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TECHNICAL SPECIFICATION FOR THREE PHASE IN & THREE PHASE OUT

MODEL	ESH1033	ESH1533	ESH 2033	ESH3033	ESH4033	ESH6033	ESH8033
RANGE							
	10KVA	15KVA	20KVA	30KVA	40KVA	60KVA	80KVA
INPUT							
Principal of working	True On-line, Double Conversion, Static Bypass Switch						
Phase	Three phase + N + PE						
Voltage	208~478V						
Power Factor	>0.99						
Frequency	40/70Hz						
Harmonic Distortion (THDi)	2% (100% non-linear load) Max.Volt.: 220V+25%(optional + 10%,+15%,+20%) 230V 20% (optional +10%, +15%) 240V 15% (optional +10%)						
Bypass Voltage	Minimum volt.: -45% (optional -20%, _30%) Frequency Protection Range: ± 10%						
OUTPUT							
Voltage / Regulation	380/400/415V (Adjustable), Three Phase + N + PE , ±2%						
Power Factor	0.9 & 1 (as required)						
Frequency	1.Line Mode: ±1% / ±2%/ ± 4%/ ± 5%/ ± 10% of the rated frequency (optional)						
	2.Battery Mode: (50/60±0.2%)Hz						
Crest Factor	3:1						
Harmonic Distortion (THDi)	<2% with linear load <5% with non linear load						
Efficiency	94.5%						
BATTERY							
Voltage	Standrad unit: ± 216Vdc; Long run unit Optional: ± 192V\ ± 240V\ ± 216V\± 228V\ ± 240V						
Charge Current (A) (It can be set according to battery capacity installed)	5.7A (Max./standard unit) 6.0A (Max./Long run unit)				12A (Max.)		18A (Max.)
Battery	Advance Battery Management						
SYSTEM FEATURES							
Transfer time	Utility to battery: 0ms; Utility to bypass:0ms						
Overload: Line Mode	Load<110%:last 60min, <125%: Last 10min, < 150%: Last 5min,>150% shutdown UPS Immediately						
Bat. Mode	Load<110%:last 10min, <125%: Last 1min, < 150%: Last 5S,>150% shutdown UPS Immediately						
LCD Display	Input Voltage & Frequency, Output Voltage & Frequency Load Percentage, Battery Voltage & inner Temp.						
Communication Interface	RS232, RS485,Parallel,Intelligent slot,Relay Card (Optional, SNMP) Card (optional)						
ENVOIRMENTAL							
Oprating Temperature	0 ~ 40C						
Stroage Temperature	-25~55C						
Humidity Range	0~95% (non condensing)						
Altitude	<1500m						
Noice Level	<55db						
PHYSICAL							
Dimension D x W x H (mm)	780 x 600 x 1200						
Net Weight (kg)	S:591 H;123	S:594 H;126	S:595 H;127	S:595 H;127	158	158	195
STANDRADS							
Safety	Safety: IEC/EN62040-1, IEC/EN60950-1. EMC IEC/ EN62040-2, IEC61000-4-2, IEC61000-4-3, IEC61000-4-4, IEC61000-4-5, IEC61000-4-6, IEC61000-4-8						
Noise Suppression	Complies with EN62040~2						

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TECHNICAL SPECIFICATION FOR THREE PHASE IN & THREE PHASE OUT

MODEL							
	ESH10033	ESH12033	ESH16033	ESH20033	ESH30033	ESH40033	ESH50033
RANGE							
	100KVA	120KVA	160KVA	200KVA	300KVA	400KVA	500KVA
INPUT							
Principal of working	True On-line, Double Conversion, Static Bypass Switch						
Phase	Three phase + N + PE						
Voltage	208~478V						
Power Factor	>0.99~1						
Frequency	40/70Hz						
Harmonic Distortion (THDi)	2% (100% non-linear load) Max.Voltage: 220V+25%(optional + 10%,+15%,+20%) 230V 20% (optional +10%, +15%) 240V 15%						
Bypass Voltage	(optional +10%) Minimum voltage: -45% (optional -20%, _30%) Frequency Protection Range: ± 10%						
OUTPUT							
Voltage / Regulation	380/400/415V (Adjustable), Three Phase + N + PE , ±1%						
Power Factor	0.9/1 (as required)						
Frequency	1.Line Mode: ±1% / ±2%/ ± 4%/ ± 5%/ ± 10% of the rated frequency (optional)						
	2.Battery Mode: (50/60±0.2%)Hz						
Crest Factor	3:1						
Harmonic Distortion (THDi)	<2% with linear load <5% with non linear load						
Efficiency	94.5% / 96% Customized						
BATTERY							
Voltage	Standrad unit: ± 216Vdc; Long run unit Optional: ± 192V\ ± 240V\ ± 216V\± 228V\ ± 240V						
Charge Current (A)							
(It can be set according to battery capacity installed)	24A (Max.)	24A (Max.)	36A (Max.)	50A (Max.)	80A (Max.)	100A (Max.)	130A (Max.)
Battery	Advance Battery Management						
SYSTEM FEATURES							
Transfer time	Utility to battery: 0ms; Utility to bypass:0ms						
Overload: Line Mode	Load<110%:last 60min, <125%: Last 10min, < 150%: Last 5min,>150% shutdown UPS Immediately						
Bat. Mode	Load<110%:last 10min, <125%: Last 1min, < 150%: Last 5S,>150% shutdown UPS Immediately						
LCD Display	Input Voltage & Frequency, Output Voltage & Frequency Load Percentage, Battery Voltage & inner Temp.						
Communication Interface	RS232, RS485,Parallel,Intelligent slot,Relay Card (Optional, SNMP) Card (optional)						
ENVOIRMENTAL							
Oprating Temperature	0 ~ 40C						
Stroage Temperature	-25~55C						
Humidity Range	0~95% (non condensing)						
Altitude	<1500m						
Noice Level	70db				73db		
PHYSICAL							
Dimension D x W x H (mm)	780 x 600 x 1200			800x600x1600	850x600x1600	850 x 1200 x 2000	
Net Weight (kg)	286	288	348	380	600	815	860
STANDRADS							
Safety	Safety: IEC/EN62040-1, IEC/EN60950-1. EMC IEC/ EN62040-2, IEC61000-4-2, IEC61000-4-3, IEC61000-4-4, IEC61000-4-5, IEC61000-4-6, IEC61000-4-8						
Noise Suppression	Complies with EN62040~2						

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