



D.P Electronics.e.K
(Deutsche Power)

ELEKTRA SERIES

INDUSTRIAL GRADE ONLINE DOUBLE CONVERSION UPS
1KVA ~ 20KVA (1/1)

Deutsche Power

**Mission Critical &
Industrial Grade UPS**

INDUSTRIAL GRADE ONLINE DOUBLE CONVERSION UPS (Elektra Series)



Elektra LF Series (1/1) 1KVA~20KVA

Elektra Series adopts DSP, MCU and DDC real time processing all digital vector Control technology which increases power component performance and enable active conditioning of the load. Due to this technology UPS can bear unbalance load and can distribute perfectly in parallel mode

Elektra series UPS replaces traditionally insert electric circuit processing with high precession SMD technology. This innovation not only save the space but also drastically eliminate the distortion of insert components in traditional UPS circuit. What's more, it ensures the integrate circuit a safe operation and enhances its reliability & operation precision.

- Single Phase In, Single Phase Out
Power Factor 0.8



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Elektra series UPS, widely using SMD technology, is heat-resistant, highly accurate and also has an excellent filter, which greatly improves the whole performance of the UPS. It is more durable and its lifetime is prolonged by 80%.

Class-C Lightning-Proof System

Elektra Series is equipped with Class-C lightning-proof system serves as a protection measurement for the alternative power input into the computer room to prevent external lightning strike or electrical surge voltage from entering the computer room and from any damage to the equipment installed therein. This accessory system should be selected if no Class-C or below lightning proof system is set up in the low voltage power distribution system output terminals, the computer room is far from low voltage power distribution output or it is the special area liable to lightning strikes. Class-C lightning-proof system is designed for a max 20 KA for current flow and $8/20\mu\text{s}$ for impulse current wave form.

Front access Maintenance

An important consideration has been given to allow generous access to the units electronic cards and power components. All the boards are accessible by the front panel for easily maintenance and replacement.

Parallel Connectivity

Parallel Connectivity is available up to 8 Units, which further improve the reliability and compatibility of the UPS. This system ensures more sensitive and reliable operations of the UPS to continue feeding the load through parallel connectivity even if one unit is out of order the other unit still operate and ensures a continuous supply with out any interruption.

Leading Technology

Elektra Series adopts DSP, MCU and DDC real time processing all digital vector Control technology which increases power component performance and enable active conditioning of the load. Due to this technology UPS can bear unbalance load and can distribute perfectly in parallel mode.

UPS Information

Rectifier Information -Inverter Information -Battery Information -Logging History -Alarms Information -Load Information

Unique Battery Protection Function & Management

The Elektra Series has an advance Battery management function including Battery malfunction test, prediction of backup time after battery discharge, Battery self test etc. Batteries are connected with UPS by an external battery switch, the battery switch is a "three-stage" DC switch that can be manually closed, and has a control circuit controlled by the UPS electronic tripping device. Effectively reducing the past due to battery leakage or short circuit caused the fire risk for the safe operation of the UPS has provided a guarantee. UPS is equipped with a emergency stop button, this emergency stop button can be used remotely to shutdown the UPS.

Applications

Industrial Machines, Large mainframe oriented data centers, Computer rooms; Small mainframe Mini computers, Centralized or clustered servers, Telecommunications applications, Medical analysis equipment such as MRI and CAT scanners, Laboratory instrumentation, Mission critical customized applications

Elektra UPS are available in the following configurations

Distributed Parallel; increasing power of the supply system whilst controlling costs, Centralized Parallel; using an additional common output cubicle and providing a standby reserve line for the whole system HFC (High Fault Clearance) Parallel; enabling simultaneous switching on of all available standby reserve lines, with a downstream fault clearing capacity that is four times higher.

INDUSTRIAL GRADE ONLINE DOUBLE CONVERSION UPS (Elektra Series)

TECHNICAL SPECIFICATION FOR SINGLE PHASE IN & SINGLE PHASE OUT

MODEL

	ES111	ES 211	ES 311	ES 411	ES 611	ES 811	ES 1011	ES1511	ES 2011	
RANGE										
	1KV/0.8KW	2KV/1.6KW	3KV/2.4KW	4KV/3.2KW	6KV/4.8KW	8KV/6.4KW	10KV/8KW	15KV/12KW	20KV/16KW	
INPUT										
Principal of working	True On-line, Double Conversion, Static Bypass Switch, Output with transformer									
Phase	Single phase + N + G									
Voltage	220/230									
Power Factor	>0.97 (with filter)									
Frequency	50/60Hz±5%									
Soft Start	0-100% 5 Secs									
Max. Input Current	6	10	14	24	34	45	56	65	85	
OUTPUT										
Phase	Single Phase + N + G									
Voltage	220Vac(±0.5%) / 230Vac(±0.5%)									
Frequency	50/60Hz(±5%)									
Crest Factor	3:1 (max)									
Efficiency	1~8kva : 85% online 10~30kva : 90% online									
Harmonic Distortion (THD)	<1.5%(linear load)									
BATTERY										
Battery Voltage	48 VDC or 192 VDC				192 VDC					
SYSTEM FEATURES										
Transfer Time	0ms (Line mode - Battery mode)									
Overload	>125% : 1min, >150%:200ms									
Communication interface	RS232, SNMP (optional), Dry Contact (optional)									
ENVIROMENTAL										
Opration Temperature	0~40C									
Stroage Temperature	-25C~55C									
Humidity Range	0~95%(non-condensing)									
Altitude	<1500m									
Noise Level	<55db									
Dimention / Weight										
Dimention D x W x H (mm)	608 x 200 x 538 (48Vdc/Battery) 580 x 230 x 720 (192Vdc/Battery)			580 X 230 X 720		585 x 305 x 864			798 x 409 x 1044	
Net Weight (Kg)	44/45	55/54	62/54	57	63	92	100	125	180	
STANDRADS										
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									

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