DP Electronics (Deutsche Power)

ELEKTRA SERIES

INDUSTRIAL GRADE ONLINE DOUBLE CONVERSION UPS

1KVA ~ 20KVA (1/1)

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 0.9

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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 8/20µs 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 continous 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 managment function including Battery malfunction test, prediction of backup time after battery discherge, 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,Tele communications 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.

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TECHNICAL SPECIFICATION FOR SINGLE PHASE IN & SINGLE PHASE OUT

MODEL	ES111	ES 211	ES 311	ES 611	ES 1011	ES1511	ES 2011
RANGE							
	1KV/0.9KW	2KV/1.8KW	3KV/2.7KW	6KV/5.4KW	10KV/9KW	15KV/13.5KW	20KV/18KW
INPUT							
Principal of working	True On-line, Double Conversion, Static Bypass Switch, Output with transformer						
Phase	Single phase + N + G						
Voltage	220/230 (165-275Vac)						
Power Factor	>0.97 (with filter)						
Frequency	50/60Hz±5%						
Soft Start	0-100% 5 Secs						
Max. Input Current	6	10	14	34	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	63	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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