

ELEKTRA SERIES

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

Mission Critical & I.T Grade UPS









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 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 UPS, the right solution for all applications requiring a perfect and uninterrupted power supply.

- Filtered, stabilised, reliable output voltage: online double-conversion technology (VFI in accordance with IEC 62040-3) with built-in EMI filters.
- High overload capability up to 150%
- Programmable auto-restart when mains power returns.
- Programmable cold-start from battery
- Power factor correction (UPS input power factor close to 1).
- Possibility to extend autonomy for several hours
- Fully configurable using UPS Tools configuration software.
- High level of battery reliability (automatic and manually-activated battery tests).
- High level of UPS reliability (total micro processor control).
- Low impact on the mains (sinusoidal absorption)
- Input protection with fuse which can be reset.



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.



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.

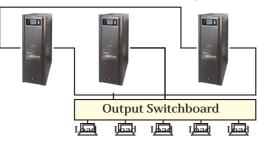
Compatible With Generators

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

Power Factor 0.9/1

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.

Isolation Transformer (Optional)

New Concept and designing now allow for built in Isolation Transformer at Input or Output make the product reliable and ready for harsh environment.

High Quality Output Voltage

- Even with non-linear loads (IT loads with a crest factor of up to 3:1)
- High short circuit current on bypass
- High overload capacity: 150% by inverter (even with mains failure)
- Filtered, stabilised and reliable voltage (double conversion on-line technology (VFI compliant with EN62040-3), with filters for the suppression of atmospheric disturbances.
- Power factor correction: UPS input power factor close to 1 and sinusoidal current uptake.

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.



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:EN6204 0-1-1 (Safety).Conducted Emission: EN50091-2: Lim its for UPS which have a rated output current excee ding 25A (25~100A)

Radiated Emission: EN50091-2: Limits for UP	'S which
have a rated output current exceeding 25A (2	5~100A)
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)

TECHNICAL SPECIFICATION FOR SINGLE PHASE IN & SINGLE PHASE OUT

Crest Factor 3:1 BATTERY SLA and LIFE Po4 Compatible								
INPUT Online double conversion pure sinewave Input system Single Phase + Neutral + Ground Rated Voltage 200 / 208 / 220 / 230 / 240VAC Voltage Range 110VAC-300VAC Power Factor	285VAC							
Input systemSingle Phase + Neutral + GroundRated Voltage200 / 208 / 220 / 230 / 240VACVoltage Range110VAC-300VACPower Factor40-70HzPower Factor->0.99Voltage Range Bypass175-290VAC ±15%OUTPUT0utput systemSingle Phase & Earth groundSingle Phase + NatRated Voltage200 / 208 / 220 / 230 / 240VACPower Factor0.9/1.0Voltage Precision±1%Frequency Normal1. The output frequency synchronizes with the input frequency when the in frequency is in the range of 47~53Hz or 57~63 HzFrequency Battery50 / 60 ± 0.1%Overload Capacity1105%-110%:UPS transfer to bypass after 1 minutes when the utility is norn 130%-150%:UPS transfer to bypass after 1 minutes when the utility is norn 150%:UPS transfer to bypass after 1 minutes when the utility is norn 150%:UPS transfer to bypass after 1 minutes when the utility is norn 130%-150%:UPS transfer to bypass after 1 minutes when the utility is norn 150%:UPS transfer to bypass after 1 minutes when the utility is norn 150%:UPS transfer to bypass after 1 minutes when the utility is norn 130%-150%:UPS transfer to bypass after 1 minutes when the utility is norn 130%-150%:UPS transfer to bypass after 1 minutes when the utility is norn 130%-150%:UPS transfer to bypass after 1 minutes when the utility is norn 130%-150%:UPS transfer to bypass after 1 minutes when the utility is norn 130%-150%:UPS transfer to bypass after 1 minutes when the utility is norn 130%-150%:UPS transfer to bypass after 1 minutes when the utility is norn 140%-120%:UPS transfer to bypass after 1 minutes when the utility is norn 150%:UPS transfer to bypass after 1 minutes when the utility is norn 150%								
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	<u>1</u> <u>y</u>							
Humidity 20%~90% (No condensation)								
Altitude Lower than 1000m: no detracting: Over 1000m 1% detracting for every 100m								
Storage Temp15°C~45°C								
Noise Level <40dBA								
Communication Interface Rs232, USB, (SNMP, Parallel card, Relay card and RJ45 are optional) MODBUS (op								
Protection Over voltage / Low voltage, input circuit braker Short Circuit	(tonut)							
Audible & Visual Alarm Line Failure, Battery low, Over Load, System Fault								
STANDRADS								
Safety IEC/EN62040-1,IEC/EN60950-1	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,I	IEC/EN62040-2,IEC6100-4-2,IEC61000-4-3,IEC61000-4-4,IEC61000-4-5,IEC61000-4-6,IEC61000-4-8							
Efficiency 88~93% (AC Mode)85 ~ 90% (Battery Mode) 94~96% (Eco-mode)	1201000-4-0							
EMI Filter Filter Included	IEC01000-4-0							
Surge Capacity 600 Joules								
Harmonic DistortionTHDi _ <3% (100% Linear load)	ILCU1000-4-0							
Harmonic DistortionTHDv _<2% THD(Linear load) ~ <4% THD (NON Linear load)								
DIMENSION UPS								
Weight 10.5 11 16 15.5	x876 with battery bank							
Input Output socket IEC / Universal Hardwire								

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 notice. Note: *For Long Backup Model Add "S", Rack Mount UPS "RT", Rack Version "R", Built-in Transformer "T". Example: ES101 (R) (RT) (S) (T). **Parallel Units Are With Output PF=0.9

TECHNICAL SPECIFICATION FOR SINGLE PHASE IN & SINGLE PHASE OUT

	ES101	ES101S	ES102	ES102S	ES103	ES103S	ES106	ES106S	ES110	ES110S			
RANGE										·			
	1 KVA		2KVA		3KVA		6KVA		10KVA				
DIMENSION RACK TYPE 1													
Size WxH xD	440x410x90												
DIMENSION RACK TYPE 2													
Size	440x86.5x410 (3U)		440x86.5x620 (3U)			443x131x580 (3U)		24U					
Weight Kg	12Kg		22Kg		26.6Kg		23Kg		25Kg				
Input Connection	IEC320-0	C14-10A	IEC320-C20-16A		IEC320-C20-16A		Hardwire						
Output Connection	IEC320 C1	3-10A X 6	IEC CL3	-10A X 8	IEC320 C13-10A	X8&C19-16AX1	Hardwire & IEC320-c13-10A x 2						
External Battery Connection	Anderson like PowerPole Modular Connectors												
BATTERY BANK													
Model	RT-BRO	06007	RT-BR12)07	RT-BF	12009	RT-BR20007		RT-BR20009		RT-BR20009		
Battery Type	7Ah	/9Ah	7Ah/9A	h	9	Ah		7Ah	9Ah				
Batt. DC Voltage	361	Vdc	72Vdc		72	Vdc	192/216/240VDC				192/216/240VDC		
Max.Quantity	6	Pcs	12Pcs		12	Pcs	16Pcs/18Pcs/20Pcs				16Pcs/18J		
Max.Charge Current	2Amp.												
Parallel	6 Units can be parallel												
STANDRADS						•							
Seafty	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. Note: For Rack Mount UPS only add "RTS" in the standard model name, Eg. (ES101RT) for 1Kva RT UPS.

Output Power Factor 1 is also available on request.

all technical specification as same as table 1

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