



ИБП ABB Conceptpower DPA (30-250 кВА) – брошюра на продукцию. Юниджет

Постоянная ссылка на страницу: <https://www.uni-jet.com/catalog/ibp/on-line-ibp/abb-conceptpower-dpa-series/>



MODULAR THREE-PHASE UPS SYSTEM

Conceptpower DPA **30–250 kVA**

True modular UPS system
for critical applications



A UPS designed to meet the needs of today and tomorrow

The Conceptpower DPA is a high-power, modular UPS system designed for today's critical high-density computing environments. The UPS is built using true online double conversion technology and delivers high-quality power. When combined with complete network integration software and communication connectivity, the Conceptpower DPA provides a comprehensive, easy-to-integrate power protection for data centers and network environments.

The Conceptpower DPA is based on ABB's unique and proven Decentralized Parallel Architecture DPA™. DPA means that each UPS module contains all the hardware and software required for full system operation. They share no common components. The major benefit of a DPA system is very high power availability. Each UPS module has its own independent static bypass, rectifier, inverter, logic control, control panel and battery charger. Even the batteries can be configured separately for each module if required. With all of the critical components duplicated and distributed between individual units, potential single

points of failure are eliminated. System uptime is further maximized by the true safe-swap modularity of the modules (easy replacement during system operation) which allows the simple addition or removal of modules without the need to bypass the UPS.

Conceptpower DPA modules can be connected in parallel configuration to provide redundancy or to increase the system's total capacity. The Conceptpower DPA delivers power protection from 30 to 250kVA (one to five modules) in a single cabinet. Cabinets can operate in parallel configuration to build a system of up to 1.5 MVA.

Further Conceptpower DPA highlights

- Power density of up to 342 kW / m² saves floor space
- Near-unity input power factor and low input harmonic distortion reduce running costs
- Safe-swap modules maximize availability and minimize upgrade costs



Online swappable modules

Fully scalable up to 1.5 MVA

"Six nines" availability

Low cost of ownership

Lower your total cost of ownership

The Conceptpower DPA boasts the lowest cost of ownership of any UPS system by offering energy efficiency, scalable flexibility and ergonomic design to enable easy serviceability. The Conceptpower DPA allows the infrastructure size to be scaled to align more closely with the prevailing IT requirements. Scaling the infrastructure to meet present IT needs, with the ability to add on incrementally as IT needs grow, also means that you only power and cool what you need. The resulting savings in power usage are substantial over the service life of the UPS.

Simplify installation and service

Its straightforward and understandable concept simplifies every step of the deployment process, from planning, through installation and commissioning to full use. Easy set-up and maintenance involve lower operating and maintenance costs. The Conceptpower DPA allows adding modules in a simple plug-and-play procedure.

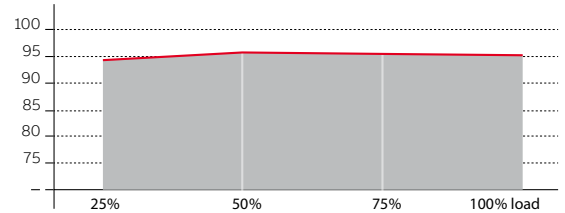
Optimize your energy efficiency

Class-leading energy efficiency significantly reduces system running costs and site air-conditioning costs.

Advanced scalable architecture

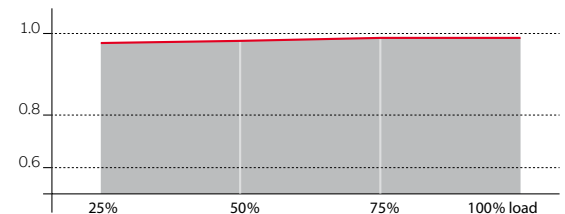
If additional capacity or redundancy is needed, up to 30 independent modules can operate in parallel configuration, achieving a total power capacity of up to 1.5 MVA.

Scalable up to 1.5 MVA



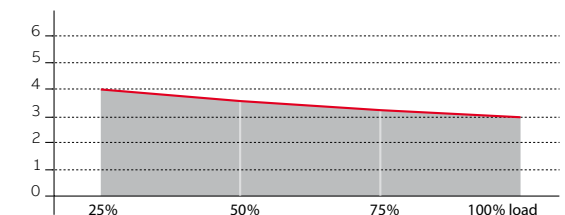
AC-AC efficiency

The flat efficiency curve enables significant energy savings in every working condition.



Input power factor versus load

The input power factor of DPA UPScale RI is near unity at partial and full load.



Input current total harmonic distortion (THDi)

Class-leading THDi of < 3% virtually eliminates harmonic distortion of the mains supply.

Rightsize your system



Product types	Conceptpower DPA Triple	Conceptpower DPA Upgrade
Output power	30–150 kVA	30–250 kVA
No. of UPS modules	1 to 3	1 to 5
Parallel configuration	Up to 30 modules	Up to 30 modules
Dimensions W×H×D (mm)	730×1975×800	730×1975×800
Weight frame (without modules / without batteries)	239 kg	205 kg

Conceptpower DPA – product range
To ensure the ultimate in flexibility, the Conceptpower DPA is available in various configurations. The lower power cabinets can accommodate batteries internally. External battery cabinets are available for all product types. All UPS cabinets are paralleleable.

Conceptpower DPA – safe-swap modularity
True safe-swap modularity enables the safe removal and / or insertion of UPS modules into a Conceptpower DPA system without risk to the critical load and without the need to either transfer the critical load onto raw mains or remove power from the critical load. This unique feature directly addresses today’s requirement for continuous uptime. The ability to safe-swap modules in a Conceptpower DPA system significantly reduces its mean time to repair (MTTR) and simplifies system upgrades.

Independent safe-swap modules!



MODULES	MX
Maximum output power	30, 40, 50 kVA
Weight	43.1, 45.3, 46.8 kg
Dimensions W×H×D (mm)	663×225×720

Technical specifications

GENERAL DATA	Conceptpower DPA Triple	Conceptpower DPA Upgrade
Maximum output power (frame)	150kVA	250kVA
Number of UPS modules	1 to 3	1 to 5
Weight (with modules/ without batteries)	368–379 kg	421–439 kg
Dimensions W × H × D (mm)	730 × 1975 × 800	730 × 1975 × 800
Output power factor	0.8	
Topology	True online double conversion	
Parallel configuration	Up to 30 modules (up to 1.5 MVA)	
UPS type	Modular (DPA)	
Cable entry	Front access	
INPUT		
Nominal input voltage	3 × 380 / 220 V + N, 3 × 400 / 230 V + N, 3 × 415 / 240 V + N	
Voltage tolerance (Ref. to 3 × 400 / 230 V)	For loads < 100 % (–20 %, +15 %), < 80 % (–26 %, +15 %), < 60 % (–35 %, +15 %)	
Input distortion THDi	≤ 3 % at 100 %	
Frequency	30–70 Hz	
Power factor	0.99	
OUTPUT		
Rated output voltage	3 × 380 / 220 V + N, 3 × 400 / 230 V + N, 3 × 415 / 240 V + N	
Voltage distortion (Ref. to 3 × 400 / 230 V)	< 2 %	
Frequency	50 or 60 Hz	
Overload capability	10 min.: up to 125 % or 1 min.: up to 150 %	
Unbalanced load	100 % possible	
Crest factor	3 : 1	
EFFICIENCY		
Overall efficiency	Up to 95.5 %	
In eco-mode configuration	98 %	
ENVIRONMENT		
Storage temperature	–25–+70 °C	
Operating temperature	0–40 °C	
Altitude	1000 m without derating	
BATTERY		
Battery capacity	Configurable up to several hours	
Internal batteries	Yes	–
No. of internal batteries	Up to 240	–
COMMUNICATIONS		
LCD display	Yes (per module)	
LEDs	LED for notification and alarm	
Communication ports	USB, RS-232, SNMP slot, potential-free contacts	
STANDARDS		
Safety	IEC / EN 62040-1	
Electromagnetic compatibility (EMC)	IEC / EN 62040-2	
Performance	IEC / EN 62040-3	
Manufacturing	ISO 9001:2015, ISO 14001:2015, OHSAS18001	
Product certification	CE	
IP rating	IP 20	

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