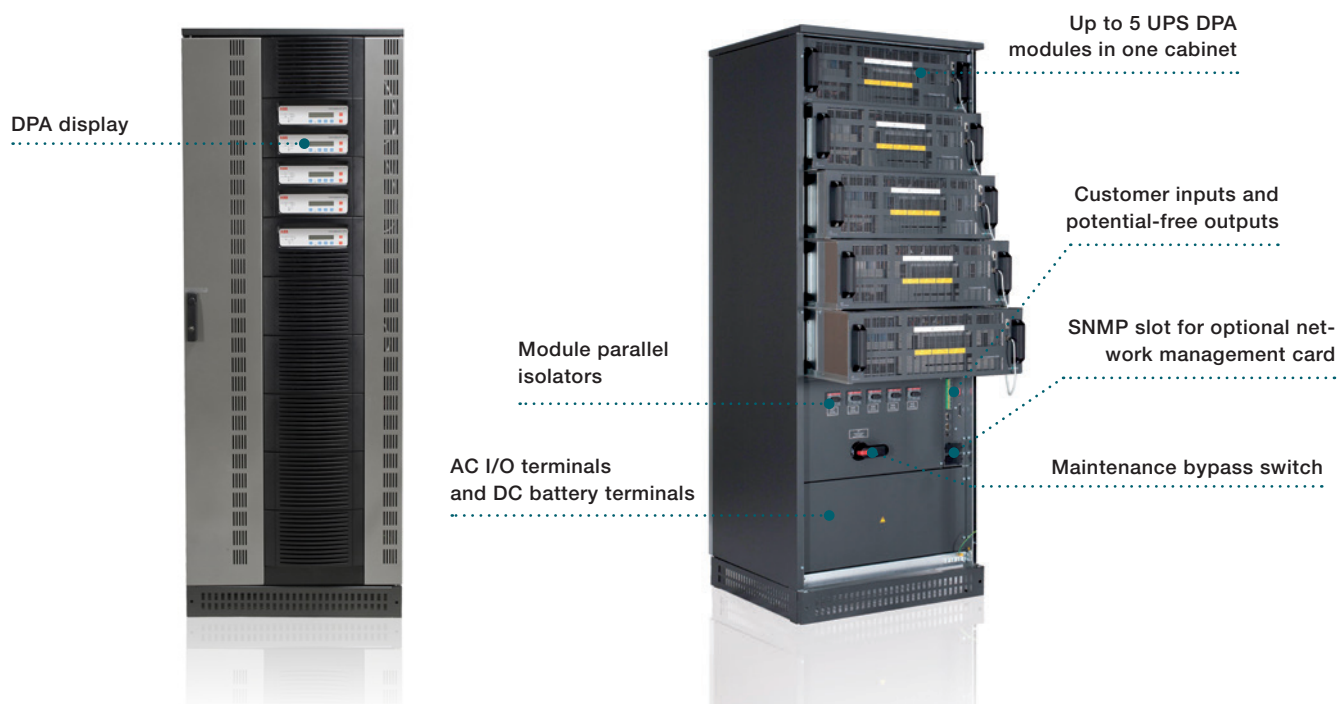


Conceptpower DPA

The modular UPS for medium-sized critical applications



The Conceptpower DPA is a true double conversion modular UPS designed for medium-sized critical applications. The Conceptpower DPA's modular architecture provides very flexible power configuration based on 30/40/50kVA modules that can be added as power requirements grow –

thus eliminating oversizing and minimizing upfront capital investment. Each DPA module is self-contained and can be online-swapped at any time, so nothing has to be ever transferred to bypass – making routine maintenance safe and easy.

99.9999% (6 nines) availability

- Decentralized Parallel Architecture
- Replace or add modules with no downtime
- Short mean time to repair
- No single points of failure

Cost effective “right-sizing”

- Scalable up to 1.5 MVA
- Vertical and horizontal scalability

Low total cost of ownership

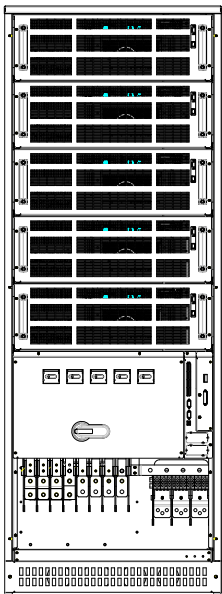
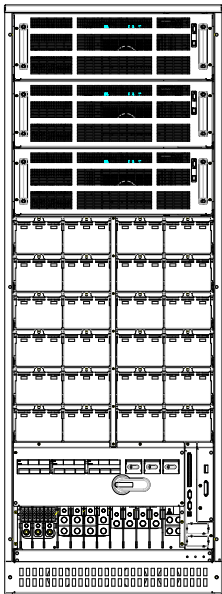
- Up to 95.5% true online efficiency
- Eco-mode efficiency $\geq 98\%$
- Small footprint/high power density
- Low input harmonic distortion (THDi $\leq 3.0\%$)

Efficient service concept

- Simple power upgrade
- Fast maintenance
- Reduced spare parts needed
- Full front access

Conceptpower DPA

Available models



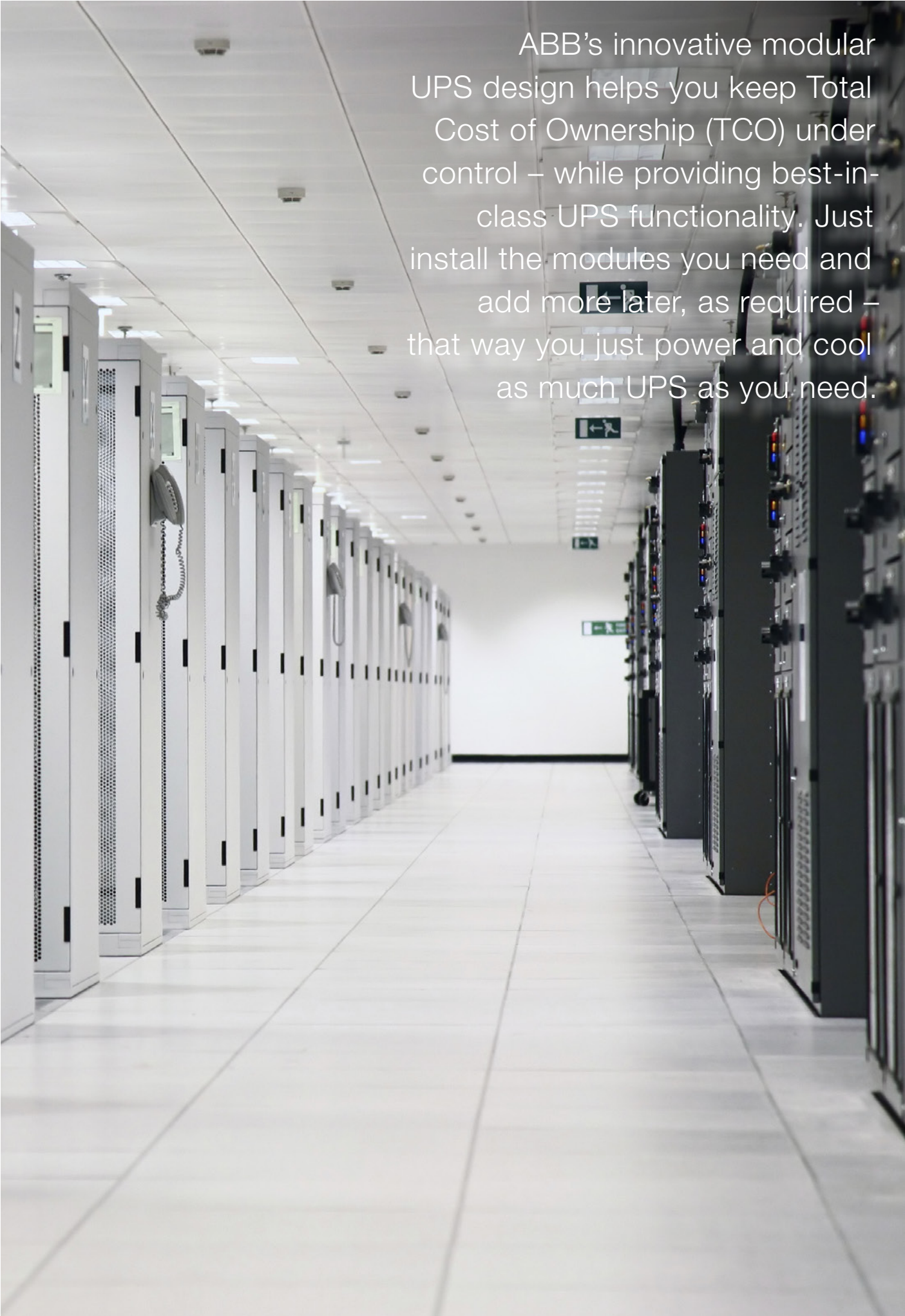
Cabinet type	Conceptpower DPA 150 kVA	Conceptpower DPA 250 kVA
Number of modules per cabinet	1 to 3	1 to 5
Dimension w × h × d	730 × 1975 × 800 mm	730 × 1975 × 800 mm
Internal battery capacity	Up to 240 blocks 7/9 Ah	–
Weight in kg	379 (with modules /without batteries)	439 (with modules /without batteries)

UPS cabinet configuration

- Online double conversion UPS
- Input, bypass and battery protection fuses
- Inbuilt back-feed protection
- Individual module display
- Inbuilt module isolator
- Free space to place internal battery modules (DPA – 150 kVA frame only)
- Single- and dual-input feed available
- Manual bypass switch
- Communication interfaces: RS-232 and USB ports, I/O dry contacts (EPO, GEN On, ...)

Options

- Synchronization kit
- Cold start
- Control and monitoring (ModBus RS-485, ModBus TCP/IP, SNMP and others)
- Halogen-free cabling
- Battery temperature sensor
- External battery cabinets



ABB's innovative modular UPS design helps you keep Total Cost of Ownership (TCO) under control – while providing best-in-class UPS functionality. Just install the modules you need and add more later, as required – that way you just power and cool as much UPS as you need.

Conceptpower DPA

Technical specification

General data	Conceptpower DPA 150 kVA	Conceptpower DPA 250 kVA
System power range	30–1500 kVA	
Nominal power /module	30 kVA /40 kVA /50 kVA	
Nominal power /frame	150 kVA	250 kVA
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	730 × 1975 × 800 mm	730 × 1975 × 800 mm
Output power factor	0.8	
Topology	Online double conversion	
Parallel configuration	Up to 30 modules	
UPS type	Modular (Decentralized Parallel Architecture)	
Input		
Nominal input voltage	3× 380 / 220 V + N, 3× 400 / 230 V + N, 3× 415 / 240 V + N	
Voltage tolerance (referred to 3× 400 / 230 V)	For loads <100% (–20%, +15%), <80% (–26%, +15%), <60% (–35%, +15%)	
Input distortion THDi	≤3%	
Frequency range	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 (referred to 3× 400 / 230 V)	<2%	
Frequency	50 Hz or 60 Hz	
Overload capability	1 min.: up to 150% / 10 min.: up to 125%	
Unbalanced load	100% (all three phases regulated independently)	
Crest factor	3 : 1 (load supported)	
Efficiency		
Overall efficiency	Up to 95.5%	
In eco-mode configuration	98%	
Environment		
Storage temperature	–25 °C to +70 °C	
Operating temperature	0 °C to +40 °C	
Altitude (above sea level)	1000 m without derating	
Battery		
Battery capacity	Configurable up to several hours	
Internal batteries	Yes	–
No. of internal batteries	Up to 240 blocks 7/9 Ah	–
Communications		
LCD	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 9001:2008, ISO 14001:2004, OHSAS18001	
Product certification	CE	
IP rating	IP 20	

www.abb.com/ups

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Power and productivity
for a better world™

