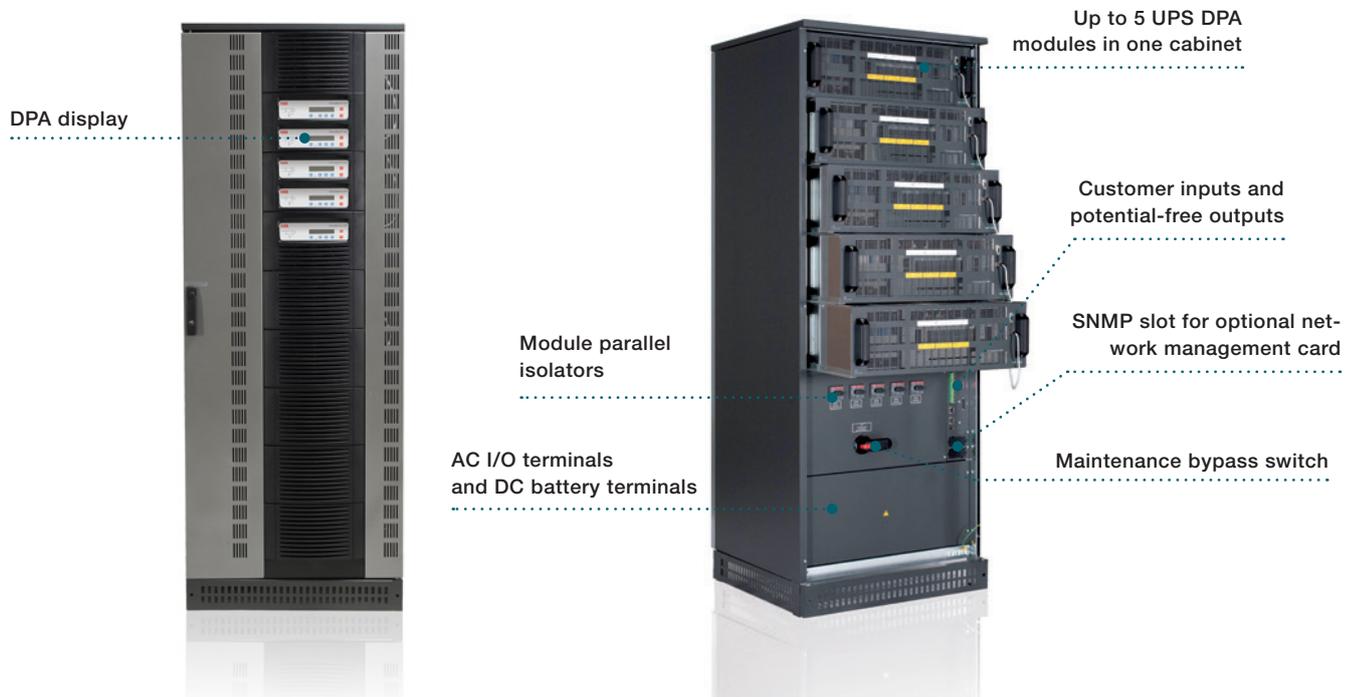


# Conceptpower DPA

## 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

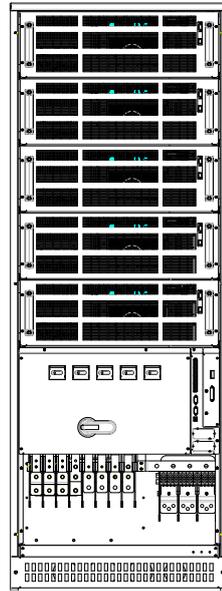
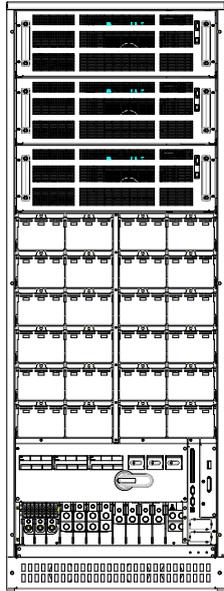
- Up to 95.5% true online efficiency
- Eco-mode efficiency  $\geq 98\%$
- Small footprint/high power density
- Low input harmonic distortion (THDi  $\leq 3.0\%$ )

### Efficient service concept

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

# Conceptpower DPA

## Available models



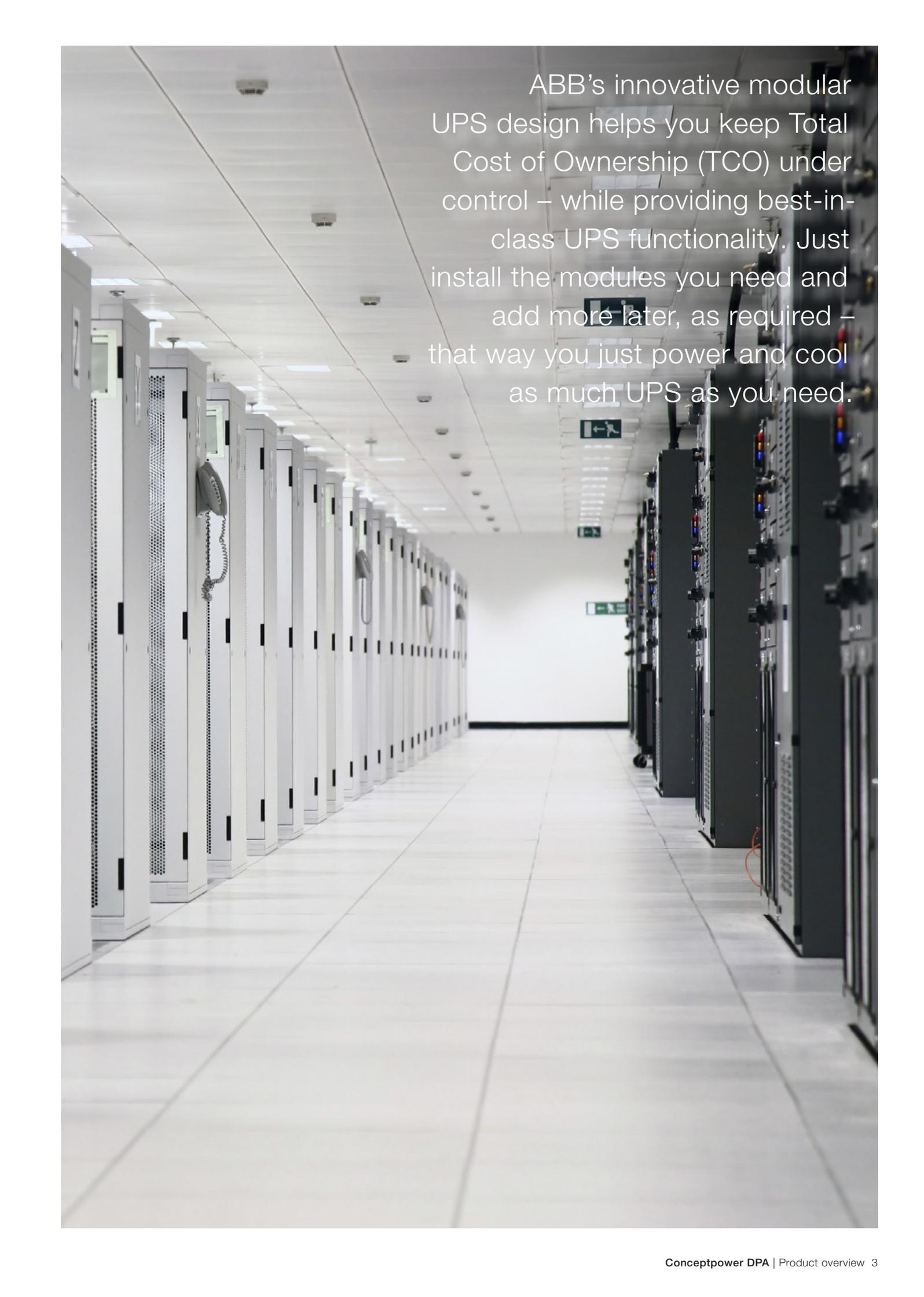
Cabinet type	Conceptpower DPA 150 kVA	Conceptpower DPA 250 kVA
Number of modules per cabinet	1 to 3	1 to 5
Dimension w × h × d	730 × 1975 × 800 mm	730 × 1975 × 800 mm
Internal battery capacity	Up to 240 blocks 7/9 Ah	–
Weight in kg	379 (with modules / without batteries)	439 (with modules / without batteries)

### 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)	
<b>Input</b>		
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	
<b>Output</b>		
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)	
<b>Efficiency</b>		
Overall efficiency	Up to 95.5%	
In eco-mode configuration	98%	
<b>Environment</b>		
Storage temperature	–25 °C to +70 °C	
Operating temperature	0 °C to +40 °C	
Altitude (above sea level)	1000 m without derating	
<b>Battery</b>		
Battery capacity	Configurable up to several hours	
Internal batteries	Yes	–
No. of internal batteries	Up to 240 blocks 7/9 Ah	–
<b>Communications</b>		
LCD	Yes (per module)	
LEDs	LED for notification and alarm	
Communication ports	USB, RS-232, SNMP slot, potential-free contacts	
<b>Standards</b>		
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](http://www.abb.com/ups)

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