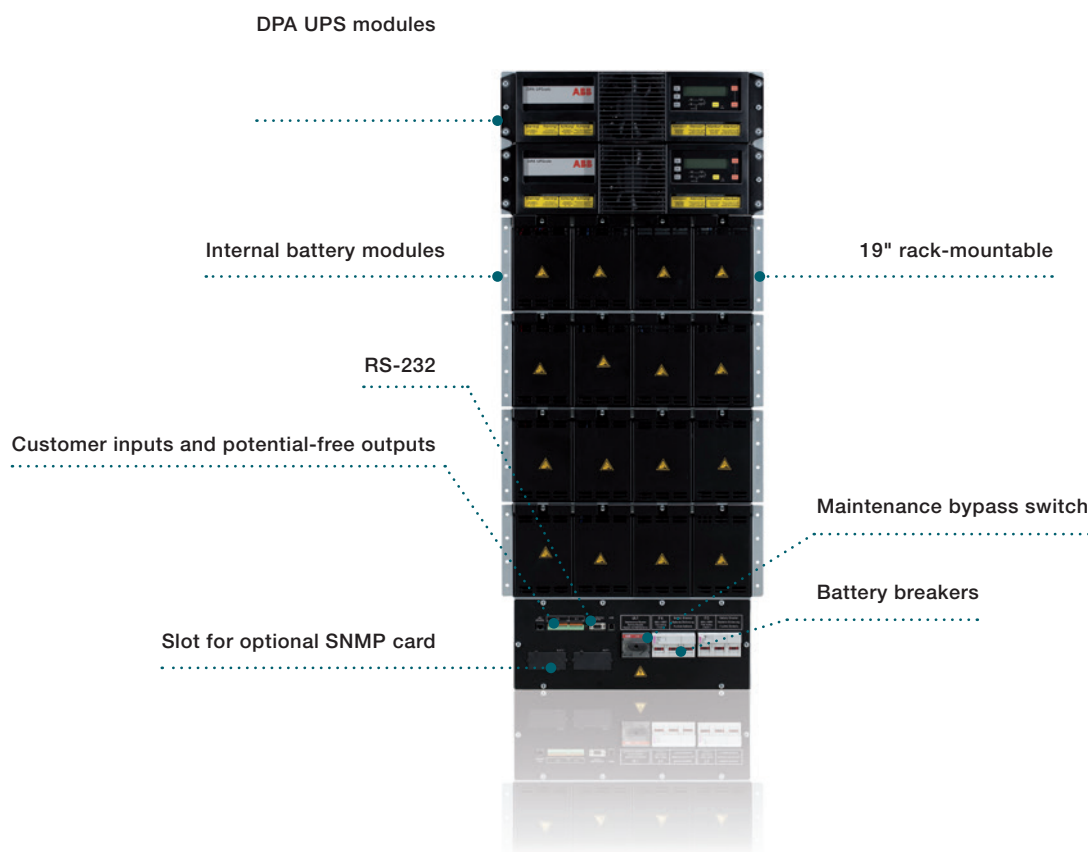


DPA UPScale RI (rack-independent)

The modular UPS for customized power protection solutions



The rack-independent DPA UPScale RI is one of the most compact UPS systems on the market that is suitable for custom-designed solutions. Being modular and rack-mountable, it provides an ideal system from the technical and commercial point of view for when a flexible solution

is required. The DPA UPScale RI, including UPS, battery and communication, can be integrated into any 19" rack (independent of manufacturer) and provides up to 80 kW (60 kW N+1) making it ideal for integrated IT, telecom or other critical control processes.

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

Low total cost of ownership

- Up to 96% true online efficiency
- Eco-mode efficiency $\geq 98\%$
- No single points of failure
- Small footprint/high power density
- Unity power factor (kW = kVA)
- Low input harmonic distortion (THDi < 3%)

Easy customization

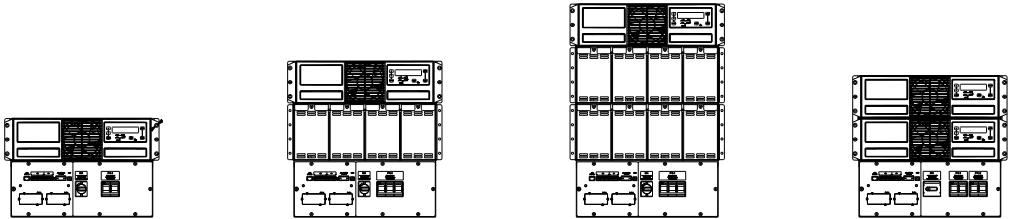
- Rack-independent
- Efficient manufacture of individual solutions with standard products
- High local added value for system integrators

Efficient service concept

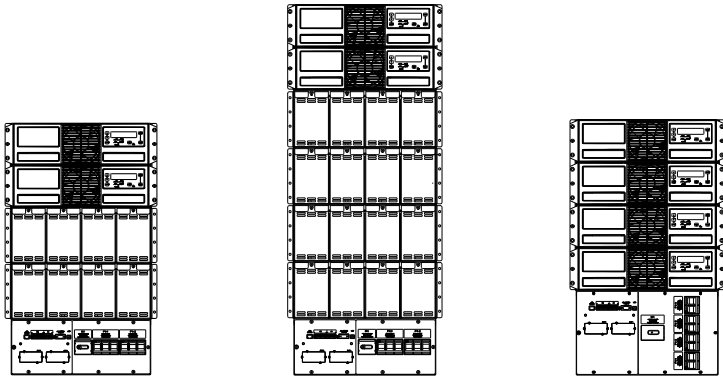
- Simple power upgrade
- Fast maintenance
- Reduced spare parts needed

DPA UPScale RI

Available models



Subrack type	RI10	RI11	RI12	RI 20
Number of modules	1	1	1	1 to 2
Dimension w × h × d	448 × 310 × 565 mm	448 × 487 × 735 mm	448 × 665 × 735 mm	448 × 440 × 565 mm
Internal battery capacity	–	Up to 40 blocks 7 / 9 Ah	Up to 80 blocks 7 / 9 Ah	–



Subrack type	RI22	RI 24	RI40
Number of modules	1 to 2	1 to 2	1 to 4
Dimension w × h × d	448 × 798 × 735 mm	448 × 1153 × 735 mm	448 × 798 × 735 mm
Internal battery capacity	Up to 80 blocks 7 / 9 Ah	Up to 160 blocks 7 / 9 Ah	–

UPS subrack configuration

- Up to four online double conversion modules
- Individual module display
- Input, bypass and battery protection fuses
- Manual bypass switch
- Single- and dual-input feed available
- Free space to place internal battery modules (only for UPScale RI 11 / 12 / 22 / 24)
- Communication interfaces: RS-232 port, five input / output dry contacts (incl. EPO and GEN On)

Options

- Integrated back-feed protection
- Cold start
- Halogen-free cabling
- Conformal coating
- Internal battery modules
- Battery temperature sensor
- Remote panel (graphical touch screen display)
- Control and monitoring (ModBus RS-485, ModBus TCP/IP, SNMP)

Only a truly redundant architecture like DPA allows online modules to be swapped out while the system is running.



DPA UPScale RI

Technical specification

General data	RI10	RI11	RI12	RI20	RI22	RI24	RI40
Nominal power / module	10 kW / 20 kW						
Nominal power / frame	20 kW	20 kW	20 kW	40 kW	40 kW	40 kW	80 kW
UPS modules	1	1	1	1 to 2	1 to 2	1 to 2	1 to 4
Maximum number of inbuilt batteries (7 / 9 Ah)	–	40	80	–	80	160	–
Output power factor	1.0						
Topology	Online double conversion						
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	35–70 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	<1.5%						
Frequency	50 Hz or 60 Hz						
Overload capability	1 min.: 150% / 10 min.: 125%						
Unbalanced load	100% (all three phases regulated independently)						
Crest factor	3:1 (load supported)						
Efficiency							
Overall efficiency	Up to 96%						
In eco-mode configuration	98%						
Environment							
Storage temperature	–25 °C to +70 °C						
Operating temperature	0 °C to +40 °C						
Altitude configuration	1000 m without derating						
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						
Product certification	CE						
Manufacturing	ISO 9001:2008, ISO 14001:2004, OHSAS18001						
Weight, dimensions							
Weight (with modules / without batteries)	Up to 39 kg	Up to 62 kg	Up to 78 kg	Up to 68 kg	Up to 109 kg	Up to 136 kg	Up to 136 kg
Dimensions w × h × d (mm)	488 × 310 × 565 (7 HU)	488 × 487 × 735 (11 HU)	488 × 665 × 735 (15 HU)	488 × 440 × 565 (10 HU)	488 × 798 × 735 (18 HU)	488 × 1153 × 735 (26 HU)	488 × 798 × 735 (18 HU)

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Power and productivity
for a better world™

