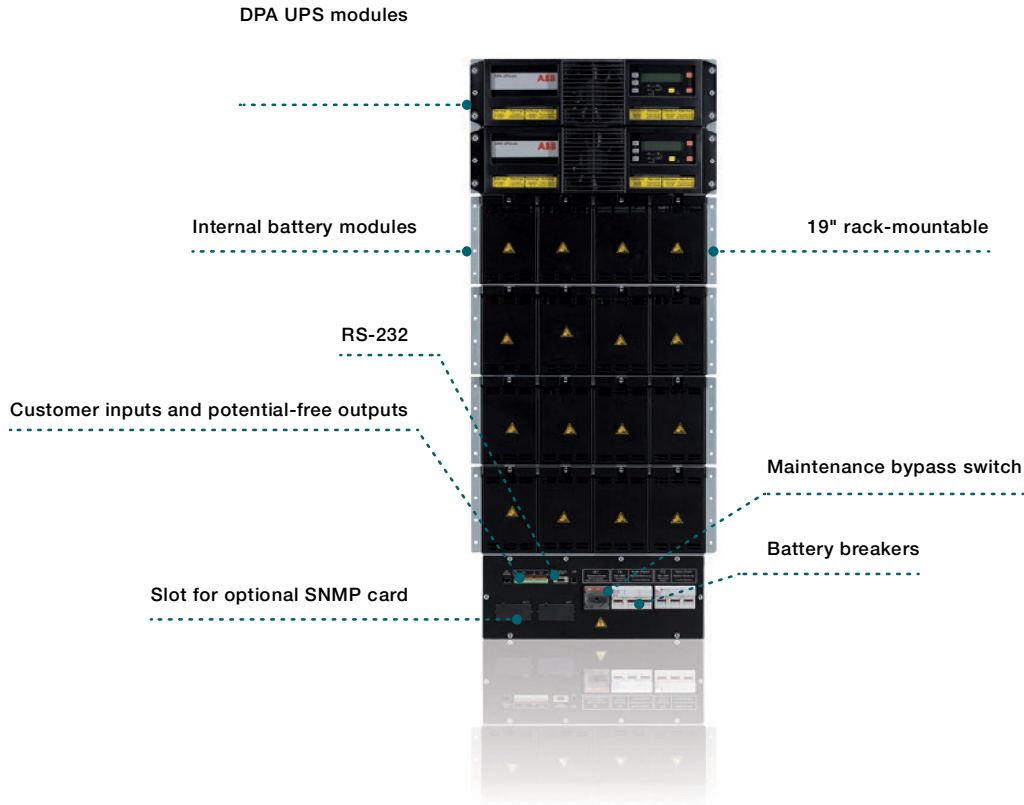


DPA UPScale RI (rack-independent)

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 80kW (60kW 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

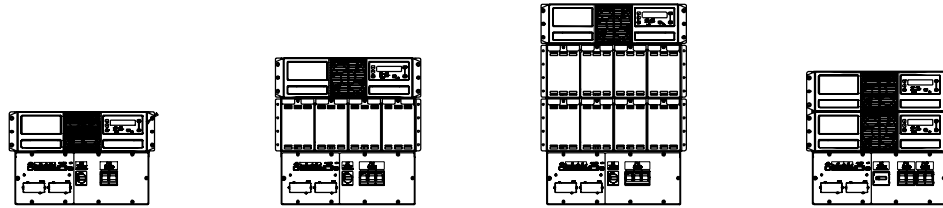
- Rack-independent
- Efficient manufacture of individual solutions with standard products
- High local added value for system integrators

Efficient service concept

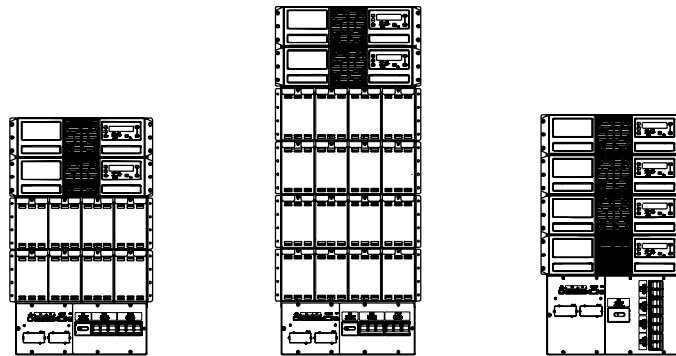
- Simple power upgrade
- Fast maintenance
- Reduced spare parts needed

DPA UPScale RI

Available models



| Subrack type | RI10 | RI11 | RI12 | RI20 |
|---------------------------|--------------------|-----------------------|-----------------------|--------------------|
| 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 7/9Ah | Up to 80 blocks 7/9Ah | – |



| Subrack type | RI22 | RI24 | 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 7/9Ah | Up to 160 blocks 7/9Ah | – |

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 | For loads <100% (–20%, +15%), <80% (–26%, +15%), <60% (–35%, +15%) (referred to 3× 400 / 230 V) | | | | | | |
| 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) |

4NWP10234-4R0001

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