

DPA UPScale ST 200

The world's most compact modular UPS

ABB's DPA UPScale ST series now up to 200 kW.

The new DPA UPScale ST200 extends the maximal power capability for the series from 120 kW up to 200 kW, delivering true modular power protection from 10 to 200 kW (in 10 or 20 kW steps) in a single, industry-standard frame.

With a footprint of only 0,42 m², the DPA UPScale ST 200 takes up less floor space than alternative UPS solutions, and becomes the most compact modular UPS in the world!

The modular DPA UPScale ST200 is based on ABB's unique and proven Decentralized Parallel Architecture DPA™. With DPA, each UPS module contains all the hardware and software required for full system operation.

Highlights

- Flexibility / scalability: 200 kW in 10 or 20 kW modular steps
- True redundancy: n+1 redundancy (up to 180 kW n+1)
- Online Swap Modularity (OSM)
- Up to 96 % efficiency in double conversion across a wide load range
- Efficiency in eco-mode ≥ 98 %
- Ultra high power density up to 472 kW/m²
- Light modules: 18.6 kg (10 kW) and 21.5 kg (20 kW).
- Low input harmonic distortion (THDi of < 3 %)
- Near-unity input power factor at partial and full loads (PF of > 0.99 at 100 % load)

Typical applications

- Small and mid-sized data centers
- Server rooms and IT applications
- Critical process protection



Power and productivity
for a better world™



Technical specifications

GENERAL DATA	
Power range	10 kW–200 kW
Nominal power module	10 or 20 kW
Nominal power frame	200 kW
Output power factor	1.0
Topology	Double conversion , Transformerless, Modular, Decentralized
Parallel configuration	Up to 10 modules in one frame
Cable entry	Bottom accessible from front
INPUT	
Nominal input voltage	3 x 380 / 220 V+N, 3 x 400 / 230 V+N, 3 x 415 / 240 V+N
Voltage tolerance	308–460 V (–23 – +15 %) < 100 % load, 280–460 V (–30 – +15 %) < 80 % load, 240–460 V (–40 – +15 %) < 60 % load
(referred to 400 / 230 V)	
Input distortion THDi	≤ 3.0 % @ 100 % load
Frequency range	35–70 Hz
Power factor	0.99 @ 100 % load
OUTPUT	
Rated output voltage	3 x 380 / 220 V, 3 x 400 / 230 V, 3 x 415 / 240 V
Voltage tolerance (referred to 400 / 230 V)	< ± 1 % with static load / < ± 4 % with step load
Voltage distortion	< 1.5 % with linear load / < 4 % with non-linear load
Overload capability	10 min up to 125 % / 1 min up to 150 %
Unbalanced load	100 % possible
Frequency	50 or 60 Hz (selectable)
EFFICIENCY	
AC-AC	Up to 96 %
In eco-mode	≥ 98 %
ENVIRONMENT	
Protection rating	IP20
Storage temperature	–25 – +70 °C
Operating temperature	0 – +40 °C
Altitude (above sea level)	1000 m without de-rating
BATTERIES	
Number of 12V blocks	Flexible number from 30–50 blocks ¹⁾ 1) depending on the effective load
Types	VRLA, vented lead-acid, NiCd, super capacitors
Battery charger	Decentralized charger per module
COMMUNICATIONS	
User interface	Decentralized LCD + mimic diagram (one per module as standard)
Communication ports	USB, RS-232, potential-free contacts, SNMP
STANDARDS	
Safety	IEC / EN 62040-1
EMC	IEC / EN 62040-2
Performance	IEC / EN 62040-3
Product certification	CE
Manufacturing	ISO 9001:2008, ISO 14001:2004
WEIGHT, DIMENSIONS	
Module Weight	18.6 kg (10 kW) / 21.5 kg (20 kW)
Module Dimensions W x H x D	488 x 132 x 540 mm (3 HU) (10 and 20 kW have the same dimensions)
Frame Weight	174 kg (without modules)
Frame Dimensions W x H x D	550 x 1975 x 770 mm

To take the next step just visit
www.abb.com/ups

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