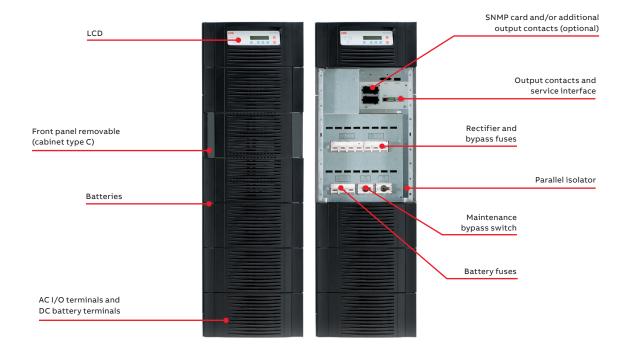


PowerScale

The three-phase UPS for low power applications



PowerScale is an online, double-conversion, VFI (voltage frequency independent) UPS that provides enhanced power protection in a compact format. Its outstanding price / performance delivers the best value for money in its category with

uncompromised system reliability and power availability. PowerScale is available in three cabinet sizes, enabling you to choose the ideal capacity and required autonomy for your critical load.

High reliability

- Online double conversion technology
- Parallelable systems for increased redundancy

Low cost of ownership

- · Scalable power and autonomy time
- · Small footprint/high power density
- High efficiency at partial and rated loads (up to 95.5%)
- Reduced installation costs
- Ripple-free and temperature controlled battery chargers extend battery life time performance
- Low input harmonic distortion (THDi <3%)

Flexible design

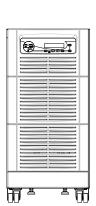
- Available in seven power ratings and three cabinet sizes
- · Parallel capacity up to 20 units
- External battery cabinets for extended autonomy

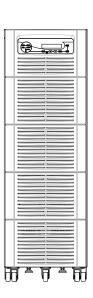
Efficient service concept

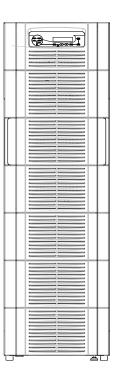
- · Manually operated maintenance bypass switch
- User-friendly LCD
- · Ergonomic design for easy serviceability
- · Remote monitoring and connectivity options

PowerScale

Available models







| Cabinet type | Cabinet A: 10–20kVA | Cabinet B: 10–25 kVA | Cabinet C: 25–50 kVA |
|---------------------------|-----------------------|-----------------------|------------------------------------------------------|
| Dimension w×h×d | 345×720×710mm | 345×1045×710mm | 440×1400×910mm |
| Internal battery capacity | Up to 48 blocks 7/9Ah | Up to 96 blocks 7/9Ah | Up to 144 blocks 7 / 9 Ah or 48 blocks 24 / 28 Ah |

UPS cabinet configuration

- Online double conversion UPS
- Capacities from 10 kVA to 50 kVA in three different cabinet sizes
- Input, bypass and battery protection fuses
- Manual bypass switch
- Up to 95.5% efficiency across a wide load range
- Single- and dual-input feed available
- Communication interfaces: RS-232 and USB ports.
 - I/O dry contacts (EPO, GEN On, ...)
- Free space to place internal batteries

Options

- Integrated back-feed protection
- Parallel kit
- Cold start
- IP21
- Halogen-free cabling
- Battery temperature sensor
- Communication interfaces: Relay card, ModBus RS-485, ModBus TCP/IP, SNMP
- Internal batteries
- External battery cabinets

PowerScale

Technical specifications

| General data | 10kVA | 15 kVA | 20kVA | 25 kVA | 30 kVA | 40 kVA | 50kVA | |
|----------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|--------------------|----------------------|------------------------|---------------|---------------|---------------|--|
| Output power max. | 9kW | 13.5 kW | 18 kW | 22.5 kW | 27 kW | 36kW | 45kW | |
| Output power factor | 0.9 | | | | | | | |
| Topology | Online double co | onversion | | | | | | |
| Parallel configuration | | parallel configura | ation | | | | | |
| UPS type | Standalone | paramer com igare | | | | | | |
| Inbuilt batteries | Yes | | | | | | | |
| Input | | | | | | | | |
| Nominal input voltage | 3×380V/220V+ | N, 3×400V/230V | /+ N. 3×415 V / 240 |)V + N | | -1 | - | |
| Voltage tolerance | | , , | ,, , | | | | | |
| - | For loads <100% (-10%, +15%), <80% (-20%, +15%), <60% (-30%, +15%) | | | | | | | |
| Input distortion THDi | ≤3 at 100% (sine wave) | | | | | | | |
| Frequency | 35-70 Hz | | | | | | | |
| Power factor | 0.99 at 100% loa | d | | | | | | |
| Output | | | | | 1 | 1 | 1 | |
| Rated output voltage | 3×380 V/220 V+ | +N, 3×400 V/230 | V+N, 3×415 V/24 | 10 V + N | 1 | 1 | 1 | |
| Voltage tolerance | | | | | | | | |
| (referred to ×400 V / 230 V) | 1% (static), 4% (| dynamic) | | | | | | |
| Voltage distortion | <2% linear load, | <4% non linear lo | ad (IEC/EN62040 | -3) | | | | |
| Frequency | 50 Hz or 60 Hz | | | | | | | |
| Overload capability | 5 min.:110 % or 20 sec.: 125 % (10 kVA - 25 kVA); 10 min.: 110 % or 1 min.: 125 % (30 kVA - 50 kVA) | | | | | | | |
| Unbalanced load | 100% (all three phases regulated independently) | | | | | | | |
| Crest factor | 3:1 (load suppor | rted) | | | | | | |
| Efficiency | | | | | | | | |
| Overall efficiency | Up to 95.5% | 1 | | | | 1 | | |
| n eco-mode configuration | 98% | | | | | | | |
| Environment | | | | | | | | |
| Storage temperature | -25°C to +70°C | | | | | | | |
| Operating temperature | 0°C to +40°C | | | | | | | |
| Altitude | 1000 m without derating | | | | | | | |
| Battery | | | | | | | | |
| Battery type | 7 Ah / 9 Ah / 28 Ah, sealed, lead-acid, maintenance-free | | | | | | | |
| Battery replacement | Field-replaceable | | | | | | | |
| Battery voltage | Flexible voltage for longer backup times | | | | | | | |
| Battery capacity | 48 or | 48 or | 48 or | 96 or | 144×7/9Ah | 144×7/9Ah | 144×7/9Ah | |
| | 96×7/9Ah | 96×7/9Ah | 96×7/9Ah | 144×7/9Ah | or 48 × 28 Ah | or 48 × 28 Ah | or 48 × 28 Ah | |
| Communications | | | | | | | | |
| LCD | Yes (per module) | | | | | | | |
| LEDs | LED for notification and alarm | | | | | | | |
| Communication ports | RS-232, SNMP slot (USB and potential-free contacts optional) | | | | | | | |
| Standards | | | | | | | | |
| Safety | IEC/EN 62040-1 | | | | | | | |
| Electromagnetic | , | | | | | | | |
| compatibility (EMC) | IEC / EN 62040-2 | | | | | | | |
| Performance | IEC/EN 62040-3 | | | | | | | |
| Product certification | CE | | | | | | | |
| Protection rating | IP20 | | | | | | | |
| | | SO 14001:2015, O | HSAS18001 | | | , | | |
| Manufacturing | 150 9001:2015, 1 | | | | | | | |
| Manufacturing Weight, dimensions | ISO 9001:2015, I | | | | | | | |
| Manufacturing Weight, dimensions | A or B | A or B | A or B | B or C | С | С | С | |
| Manufacturing Weight, dimensions Cabinet type | | | A or B 64 or 92kg | B or C 94 or 135 kg | C 145kg | C 150kg | C 155kg | |
| Manufacturing Weight, dimensions Cabinet type Weight Dimensions w×h×d (mm) | A or B | A or B | | | | | | |



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