Clean and Compact MV Drive
Fan, pump, compressor, conveyor applications

Altivar 1200
Medium-voltage variable speed drive, from 315 to 16,200 kVA
Easy integration into existing or new installations
High reliability and performance
Reduced energy consumption
Lower maintenance costs
Complete range of services
Benefit from uncompromised MV technology

Altivar 1200 extends the wide range of electrical distribution, motor control, and control systems from Schneider Electric. Designed for industry and utility applications, this simple and high-performance MV drive will optimize the performance of applications such as fans, pumps, compressors, and conveyors.

**Mining, Minerals & Metals**
- Cement
- Coal mine
- Metallurgy
- Kiln head exhaust fan

**Oil & Gas**
- Petroleum and petrifaction
- Kiln head exhaust fan
- Air compressor
- Submersible pump

**Power**
- Boiler induced draught fan
- Boiler forced draught fan
- Primary fan
- Condensate pump
- Sewage pump

**Water & Wastewater**
- Water suction pump
- Water supply pump
- Primary suction pump
- Secondary clean water pump
Compact design and enhanced safety

All-in-one cabinet

Easy maintenance
- Front access transformer and control

Efficient cooling
- Separated air flow
- No additional fans to maintain
- Washable filters

Fully equipped
- UPS (30 mins)
- 10" HMI touch screen
- Indoor cabinet lights
- Audible alarm
- Free I/O
- Limit switch

Advanced IP31 enclosure

Separate access to MV area
- Interlock system
- Special door-opening tool required
- Handle lock
- DC bus power-off signal

Robust design
- 2mm panel thickness
- IP41 and IP42 (option)

Optimized power cell cabinet

Compact design
- Modular power cell design
- Easy to replace

Checking window
- 4 peepholes on each door of the power cell cabinet
Proven technology for performance and reliability

Control reliability
- Easy access and compactness
  - Integrated high speed control
  - Customizable interface and control

Uninterrupted power supply
- 30 mins continuous operation after power supply loss
- Protection against supply instability (voltage drop)

Inverter efficiency
- 98.5% efficiency

High-performance inverter
- Motor-friendly
  - Up to 19 levels of pulse-width modulation (PWM) for minimal switching surges
  - Insignificant harmonics
  - Up to 2km motor cable length without output filter

Integrated transformer
- Compactness
  - Fewer cables and simpler commissioning

Clean power
- 18-54 pulse operation
- Clean sinusoidal wave

Air duct system
- Improved drive efficiency
- No hotspots

Watch the video
Compact and environmentally friendly

Clean power
The multi-level topology shown below, featuring a 30-pulse diode rectifier, is associated with the kind of low-voltage IGBTs that have proven successful in practice and are found in a wide range of applications. It also features:

- Harmonics-free input current with high power factor
- No pulse torque
- Quasi sinusoidal wave for motors and supply currents (negligible harmonic current contents)
- Current switched off instantaneously
- Minimum losses since the IGBT does not need a snubber and requires little switching power

Compact size: Up to 1.5 MVA per meter of enclosure (drive only)

> 96.5%*
Efficiency including transformer
*Depends on transformer

> 50,000 h
MTBF: more than 5.5 years
### Benefit from innovation in your medium-voltage applications

**Improved technology**  ➡️  **Optimized results**

#### Optimized cabinet
- Compact design with input transformer integrated in the drive enclosure
- Easy front access to control and transformer cabinet
- Certified IP31, IP41 and IP42 cabinet
- Small footprint

#### Maximized return on investments
- Reduced installation costs
- Quick commissioning
- Lower production and maintenance costs

#### Fully equipped drive
- Interlock system*, special door-opening tool required, the door is needed, power-off signal, handlelock
- Large 10” HMI, easy software configuration, internal lightening, free I/O
- UPS
- CE marking

#### Increased effectiveness
- Enhanced reliability
- Improved operation continuity
- Advanced protection of people and equipment
- User friendly
- International compliance

#### Multi-level technology
- Clean sinusoidal wave output current
- Lower harmonics, no motor stress
- Operate also with directly connected existing motors

#### Increased effectivness
- Enhanced reliability
- Improved operation continuity
- Advance protection of people and equipment
- User friendly
- International compliance

#### Improved OPEX and CAPEX
- Low harmonics THDI<3% (input & output)
- No specific motor insulation
- Long motor cable without additional components
- No special motor cable required
- Low dv/dt and voltage steps

#### No motor disturbance
- Improved motor durability
- Compatibility with new or existing motors
- Extended cable length to motor
- Motor friendly (no mechanical stress)

#### Efficient cooling system
- Innovative system without bottom transformer fans
- Reduced energy consumption
- Air duct system (no air conditioning needed)

#### Seamless integration with motor and line supply
- Optimized return on investment
- Reduced energy losses
- Insignificant interference with the electrical network

#### Lower energy consumption
- Improved total drive efficiency

#### Simple and proven design
- Inverter
  - Modular architecture
  - Proven low-voltage IGBT

- Separate air flow in control cabinet
  - No additional fans inside the cabinet.

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*according to customers’ requirements
Flexibility and reliability

Optimized modular architecture
The inverter of the drive is based on a proven, modular low-voltage IGBT architecture for added reliability.

- Easy maintenance with module power cells that can be replaced in just a few minutes
- Simple multi-level architecture for cost-saving maintenance
- Fewer spare parts thanks to just one power cell design

A dedicated CPU compartment close to the power cells requires only short cables and simplifies the installation on site.
Cabinets can be shipped separately.

- Space-optimized dimensions without squeezing the components and avoiding hot spots inside the system
- Easy access to control panel allows you to install additional components according to your needs

Efficient cooling system
Innovative transformer design with no need for additional bottom blowers.

- Up to 0.3% total drive efficiency

Separate air flow in the control cabinet

- Efficient air flow in the control cabinet thanks to the Altivar 1200 design. No additional fans needed inside the cabinet.
- No maintenance required.

Cooling through air duct channel (option)
The Altivar 1200 can be equipped with an air duct system to exhaust heated air outside the electrical room. For optimized air conditioning, clean air has to be provided in the drive air inlets.

- Air inlet grid for transformer cabinet
- Guided air flow to avoid internal air short-circuit between transformer and powercell cabinet
- Air inlet grid for powercell cabinet
- Air duct channel
User-friendly interface with several control features

Easy-to-use 10-inch color LCD touch-screen with operation data at your fingertips.
- Multiple languages
- Consistent menus within the Altivar ranges
- Parameter and operation records
- Dedicated multi-level menu to guide you with different access levels for service and commissioning engineers (operator, manager, administrator)

Control features
- **Motor control mode**: V/f control, sensor/sensorless flux vector control, closed loop
- **Integrated protection**: Overcurrent, overvoltage, undervoltage, controller shutdown, cooling fan stop, overload, overtemperature, communication interruption, ground fault, phase loss
- **Communication**: Modbus, Modbus TCP, Ethernet IP, Profinet or DeviceNet
- **HMI screen**: 
  - Output: frequency, voltage, current, power
  - Input: voltage, current, power,
  - Power factor, parameter setting, voltage and current waveform, transformer temperature, drive status and records
- **1Q or 2Q operation, PID function**
- **I/O function**
- **Local / remote mode**
- **Frequency setting**: manual, analogue, digital

Key functions
- **Soft start function** (including synchronization and bypass)
- **Multi motor control**
- **Catch on the fly**
- **Simulation mode for commissioning**
- **Master slave function** up to 3 drives (1 master, 2 slaves)
- **Speed synchronized control** (load sharing)
- **Motor autotuning**
- **Auto restart** (after input voltage drop)
Make your life easier with complete solutions

Complete solution by Schneider Electric

The Altivar 1200 is open to most networks and can be integrated in any medium-voltage architecture.

With the Altivar 1200, Schneider Electric has created a comprehensive and consistent solution for:
• Controlling and supplying equipment
• Improving performance

Schneider Electric, a world leader in electrical distribution and control systems, presents a range of products, solutions and services for:
• Transforming and routing energy
• Automating machines and processes

The Altivar 1200 solution is based on a transformer, drive and medium-voltage electric motor assembly.

Schneider Electric can provide a turnkey solution complete with drive and associated equipment (electrical distribution, control systems).

For more information, please contact our project teams.
Build a competitive advantage with the help from our industry experts

By applying our industrialization skills to our services, we can help to ensure your success.

**Schneider Electric’s expertise**
Service experts are on hand to help you:
- Get maximum return on your investments
- Optimize the value of your installations throughout their life cycle

**A wide range of associated services**

**Audit and consultancy:**
- Line supply consultancy (compensation, filtering, harmonics, etc.)
- Shaft line study (torsional analysis, etc.)
- Energy efficiency, enabling an optimized drive solution

**Installation and startup with:**
- Assistance and troubleshooting
- Specific maintenance contract (with optional remote access and reconditioning)

**Turnkey solution**
- Schneider Electric can provide a complete turnkey solution with drive and associated equipment (electrical distribution, control systems)

**Factory tests**
- Deliver factory acceptance test (FAT)
- Test at maximum power with or without motor

**Customized training**
- On user site or in Schneider Electric training center
- Official qualification for medium-voltage drive operations

**Bespoke project management**

Rapid, flexible service provision

Rapid return on investment (generally less than 24 months)
Altivar 1200 medium-voltage speed drives are built to suit your needs! With our complete range of personalized and fully-equipped drives we have made it easy for you to find the one that fits your application perfectly.
Altivar 1200
general technical specification

Standard features

Input
18-54 pulse diode rectifier bridge

Output
Multilevel PWM with 2 level low-voltage IGBT inverter cells

Input voltage
- 2.4kV, 3.0kV, 3.3kV, 4.16kV, 5.5kV, 6.0kV, 6.3kV, 6.6kV, 6.9kV, 10kV, 11kV, 13.8 kV
- Variation: standard ±10%

Allowable voltage fluctuation
The drive is subject to de-rating operation when the voltage drop of power supply is within -30%

Input frequency
50/60 Hz ±15%

Acceleration deceleration time
0-3200 s

Overload capability
- Standard overload 120% 60s/10 min and 150% 3s/10 min, instant trip threshold 200%
- High overload 150% 60s/10 min, 185% 3s/10 min, instant trip threshold 250%

Total harmonics THDI
Comply with the requirements of power quality standard of IEEE519-1992

Frequency resolution
0.01 Hz

Trigger signal transmission
Fiber optic transmission

Input Power factor
≥ 0.96 from 20 % to 100 % of speed

Efficiency at rated power
The efficiency of the drive including input transformer 96% or over 96.5% depending on product
Inverter efficiency without transformer is 98.5%

Type of motor
Asynchronous motor, synchronous motor

Three-phase output voltage for motor connection
0...2400V - 0...3000V - 0...3300V - 0...4160V - 0...5500V - 0...6000V
0...6300V - 0...6600V - 0...6900V - 0...10000V - 0...11000V

Output frequency
120Hz for V/f, 70Hz for Vector Control

Input transformer
Indoor type integrated in the frequency variable device, the dry phase-shifting transformer can be supplied with 18 – 54 pulse rectifier

Control power supply
220 VAC, capacity 3 kVA, with UPS 30 min autonomy, other voltage on request

Protection class
- Standard: IP31
- Option: IP41, IP42

Cooling
Forced air ventilation

Paint
RAL 7032

Reference standard
IEC EN 61800-3, IEC EN 61800-4, IEC EN 61800-5-1, IEC EN 60204-11, IEC EN 60529, IEEE 519 and other optional ones

Environment

Storage temperature
-10°C to 60°C

Working temperature
0-40°C, up to 50°C possible with derating

Relative humidity
90% (without condensate), Optional: maximum up to 95%

Altitude
≤ 1000 m without derating. With derating of 0.6% every 100m up to 2000 meters, can be customized for high altitude

Vibration
Acceleration: 4.9 m/s² acceptable (10-50 Hz)

Noise level
≤ 80 dB (A) (including the noise of the cooling fan on the cabinet top)

Identification code

ATV1200 A X X X 66

Serial Name  → Air Cooled

Cooling type
Drive (kVA)
Input voltage
24 – 2.4kV
33 – 3.3kV
55 – 5.5kV
63 – 6.3kV
10 – 10kV

Output voltage
42 – 4.16kV
6.0 – 6kV
6.6 – 6.6kV
11 – 11kV

Style
S → Sync.
Motor Control
A → Async.
Motor Control

IP
3 → IP31
Motor Control
4 → IP41
Motor Control
5 → IP42

Drive efficiency
S → Standard Efficiency
H → High Efficiency

Example

ATV1200 - A 5600 - 66 60 A 3 H
The capacity of Altivar 1200 series of medium-voltage Drive is 5600 kVA, air cooled, input voltage is 6.6 kV, output voltage is 6kV, asynchronous motor control, IP31 and with high efficiency input transformer.
## Altivar 1200 Power Specifications

Voltage class 3.3 kV

<table>
<thead>
<tr>
<th>Model</th>
<th>Nominal continuous current (A)</th>
<th>Typical motor power (kW)</th>
<th>Type rating (kVA)</th>
<th>Dimension (W<em>D</em>H) mm</th>
<th>Approximate weight (kg)</th>
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<tr>
<td></td>
<td>Standard overload 120%</td>
<td>High overload 150%</td>
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<td>680</td>
<td>4063</td>
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</tbody>
</table>

1) ... Please contact Schneider Electric for other combinations of input and output voltage.
2) ... For higher drive capacity please contact Schneider Electric.
3) ... Values are calculated with motor power factor of 0.88 and efficiency of 95%. The real value must be calculated on the basis of the equipment used.
4) ... Values valid only for standard efficiency.
# Altivar 1200 power specifications

## Voltage class 4.16 kV

<table>
<thead>
<tr>
<th>Model</th>
<th>Nominal continuous current (A)</th>
<th>Typical motor power (kW)</th>
<th>Type rating (kVA)</th>
<th>Dimension (W<em>D</em>H) mm</th>
<th>Approximate weight (kg)</th>
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</tbody>
</table>

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## Altivar 1200 power specifications

**voltage class 5.5 kV**

### Power specifications

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<tr>
<th>Model</th>
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<td>ATV1200-A620-555***</td>
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# Altivar 1200 Power Specifications

Voltage class 6.0 kV

## Power Specifications

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<tr>
<th>Model</th>
<th>Nominal continuous current (A)</th>
<th>Typical motor power (kW)</th>
<th>Type rating (kVA)</th>
<th>Dimension (W<em>D</em>H) mm</th>
<th>Approximate weight (kg)</th>
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## Altivar 1200 power specifications

**voltage class 6.3 kV**

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## Altivar 1200 power specifications
**voltage class 6.6 kV**

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<th>Dimension (W<em>D</em>H) mm</th>
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1) ... Please contact Schneider Electric for other combinations of input and output voltage.
2) ... For higher drive capacity please contact Schneider Electric.
3) ... Values are calculated with motor power factor of 0.88 and efficiency of 95%. The real value must be calculated on the basis of the equipment used.
4) ... Values valid only for standard efficiency.
# Altivar 1200 Power Specifications

## Voltage Class 10 kV

<table>
<thead>
<tr>
<th>Model</th>
<th>Nominal Continous Current (A)</th>
<th>Typical Motor Power (kW)</th>
<th>Type Rating (kVA)</th>
<th>Dimension (W<em>D</em>H) mm</th>
<th>Approximate Weight (kg)</th>
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Altivar 1200: Basic guidelines on installation and maintenance

Main view

Transformer cabinet
Power unit cabinet

Side view

Installation size chart

Channel steel of VFD
Channel steel of Foundation

D Amplification

1.0

0.000mm
800mm
120mm
5mm
800mm
2500mm

D: transformer cabinet depth
Preparing your quote couldn’t be easier. Simply download the form on the next page and send it to our head office.
## Altivar 1200 Quote Form

<table>
<thead>
<tr>
<th>Date</th>
<th>Company</th>
<th>Project name</th>
<th>Market segment</th>
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### End user
- EPC
- OEM
- SI

### Standards & Certifications
- IEC
- ANSI
- IEE
- UL
- Other

### Customer specifications
- Project status
  - Budget estimate
  - RFQ phase
- Purchasing time frame
  - less than 6 months
  - between 6 & 12 months
  - between 12 & 18 months
  - more than 18 months
- Other information

### Scope of supply
- Quantity of MV drives
  - Drive
  - Input transformer
  - Input switch/breaker
  - Output switch/breaker
  - By-pass
  - Motor
  - Other

### Supply data
- Power supply
  - Voltage: kV ± %
  - Frequency: Hz ± %
- Short circuit power (MVA) max: min:
- HV cable length
- Auxiliary supply
  - Voltage: V ± %
  - Frequency: Hz ± %
- Control supply
  - UPS (Y/N)
  - No. of phases
  - V
  - Hz

### Motor parameters
- Type of motor
  - Induction
  - Synchronous
  - New
  - Existing (retrofit)
- Rated power
  - kW
  - hp
- Maximum power
  - kW
  - hp
- Rated speed
  - rpm
- Maximum speed
  - rpm
- Rated frequency
  - Hz
- Efficiency
  - %
- Power factor
  - pu
- Rated current
  - A
- DOL starting current
  - A
- Maximum torque
  - %
  - Inertia (GD²/4)
  - kgm²
- Excitation current
  - A
  - Excitation voltage
  - V
- Ventilation
  - Self-ventilated
  - Force-ventilated

### Load parameters
- Type of load
  - Variable torque
  - Constant torque
  - Constant power
  - Other
  - Breakaway torque (at 0 rpm)
  - knm
  - pu
- Gear
  - Reduction ratio
  - Inertia (GD²/4)
  - kgm²
  - Starting time
  - Acceleration time
  - Deceleration time
  - Overtorque
  - 120% 60 s every 10 min.
  - 150% 60 s every 10 min.
  - Other
  - Braking
  - Regenerative
  - Resistance
  - Braking power
  - kW
  - Cycle
  - Reverse speed

### Installation
- Temperature (°C)
  - Indoor: min.
  - max.
  - Outdoor: min.
  - max.
- Relative humidity
- Altitude
  - less than 1000 m
  - Other
- Drive
  - Indoor
  - Outdoor
  - Inside container Rectifier
  - 12-pulse input
  - 24-pulse input
  - Other
  - Air cooling
  - Water cooling
- Input transformer
  - Dry type
  - Oil filled
  - Indoor
  - Outdoor
  - IP 00
  - IP54
  - Other
- Distance
  - Transformer to drive
  - Drive to motor

### Interface
- No. of analog inputs
  - 24 VDC
  - 4–20mA
- No. of digital inputs
- No. of digital outputs
  - Dry contact
- Communication
  - Ethernet
  - Modbus
  - Profibus
  - DeviceNet
  - Other