

# Introducing Altivar Process ATV6000 UL

The Altivar™ Process ATV6000 UL services-oriented drive completes the Altivar Process lineup designed to address your medium voltage operation and maintenance challenges.

ATV6000 UL is a connected product which will optimize your business by:

- Enabling process optimization
- Improving energy management
- Enhancing asset management
- Providing a tailored engineering solution
- Asset Management with EcoStruxure Asset Advisor Incorporated as Standard

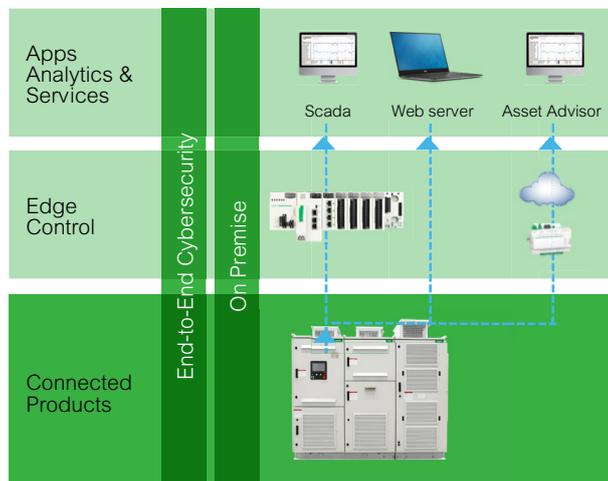
## Improved performance without the additional investment

The ATV6000 UL improves your process performance and asset management capability to transform data into valuable and actionable business insights. As a result, you get increased overall equipment effectiveness (OEE) and optimized total cost of ownership (TCO).

- Services-oriented drives for 0 up to 490Amps
- Real-time intelligence
- Easy integration in process automation systems
- Intuitive and easy to use
- Optimized performance of applications such as fans, pumps, compressors and conveyors
- EcoStruxure™-ready

## Altivar Process ATV6000 UL

The first services-oriented drive for medium voltage operations with measureable benefits.



## Connected products for smarter operations

ATV6000 UL's connectivity integrates at every level of EcoStruxure.



up to  
**20%\***

Improved productivity

up to  
**30%\***

Reduced energy consumption

up to  
**20%\***

Reduced downtime

\* Based on previous data. This is not a guarantee of future performance or performance in your particular circumstance.

# Altivar 6000 UL general technical specification



## Standard features

Altivar 6000 Medium Voltage Drive Systems	
Input	<ul style="list-style-type: none"> <li>18-30 pulse diode bridge rectifier</li> </ul>
Output	<ul style="list-style-type: none"> <li>Multilevel PWM with 2 level low-voltage IGBT inverter cells</li> <li>Up to 490 Amps Nominal Current</li> </ul>
Input voltage	<ul style="list-style-type: none"> <li>2.4kV, 4.16kV, 6.6kV</li> </ul>
Input frequency	<ul style="list-style-type: none"> <li>50/60 Hz <math>\pm</math>5%</li> </ul>
Overload capability	<ul style="list-style-type: none"> <li>Standard overload 120% 60s/10 min and 150% 3s/10 min</li> <li>High overload 150% 60s/10 min, 185% 3s/10 min</li> </ul>
Total harmonics THD(i)	<ul style="list-style-type: none"> <li>Complies with the requirements of power quality standard of IEEE519-1992</li> </ul>
Input power factor	<ul style="list-style-type: none"> <li><math>\geq</math> 0.96 from 20% to 100% of load</li> </ul>
Cable entry	<ul style="list-style-type: none"> <li>Bottom (others on request)</li> </ul>
Trigger signal transmission	<ul style="list-style-type: none"> <li>Fiber optic transmission</li> </ul>
Efficiency at rated power	<ul style="list-style-type: none"> <li>Inverter efficiency is 98.5%. Drive efficiency including input transformer is 96% to 96.5% depending on product.</li> </ul>
Type of motor	<ul style="list-style-type: none"> <li>Asynchronous motor, permanent magnet motor</li> </ul>
Three-phase output voltage for motor connection	<ul style="list-style-type: none"> <li>0 to input voltage</li> </ul>
Output frequency	<ul style="list-style-type: none"> <li>Up to 120Hz</li> </ul>
Control power supply	<ul style="list-style-type: none"> <li>100...240 Vac <math>\pm</math> 10 % (47...63 Hz), 1 kVA capacity. Power supply must be secured (uninterrupted) or UPS to be selected. Other AC and DC voltage on request.</li> </ul>
Auxiliary power supply	<ul style="list-style-type: none"> <li>120 Vac <math>\pm</math> 10%, single phase, 60 Hz, 1kVA capacity for standard configuration, actual capacity depending on auxiliary options used.</li> </ul>
Cooling fan power supply	<ul style="list-style-type: none"> <li>Internal as standard, optional external 480 VAC <math>\pm</math> 10 %, 3-phase, 60Hz</li> </ul>
Communication port protocol	<ul style="list-style-type: none"> <li>Modbus TCP, Ethernet IP, Modbus serial</li> </ul>
HMI	<ul style="list-style-type: none"> <li>10inch, color graphic, touch screen, multi-languages</li> </ul>
Control interface	<ul style="list-style-type: none"> <li>8 DI, 3AI, 2AO,3 relay output (more on request)</li> </ul>
Protection class	<ul style="list-style-type: none"> <li>UL type 1</li> </ul>
Paint	<ul style="list-style-type: none"> <li>RAL 7035</li> </ul>
Cooling	<ul style="list-style-type: none"> <li>Forced air ventilation</li> </ul>
EMC	<ul style="list-style-type: none"> <li>C4 for power, C3 for control</li> </ul>
Reference standard	<ul style="list-style-type: none"> <li>IEC EN 61800-3, IEC EN 61800-4, IEC EN 61800-5-1, IEC EN 60529, IEEE 519 and other optional ones</li> </ul>
Product certification	<ul style="list-style-type: none"> <li>cULus, CE</li> </ul>
Environment features	
Storage temperature	<ul style="list-style-type: none"> <li>32°F to 122°F / 0°C to 50°C</li> </ul>
Transportation temperature	<ul style="list-style-type: none"> <li>-13°F to 158°F / -25°C to 70°C</li> </ul>
Working temperature	<ul style="list-style-type: none"> <li>32°F to 104°F / 0°C to 40°C, up to 122°F / 50°C possible with derating</li> </ul>
Relative humidity	<ul style="list-style-type: none"> <li>Up to 95% (without condensate)</li> </ul>
Altitude	<ul style="list-style-type: none"> <li><math>\leq</math> 1000m without derating. With derating of 1% every 100m up to 2000 meters</li> </ul>
Noise level	<ul style="list-style-type: none"> <li>Approx. 80 dB (A) - depending on size</li> </ul>
Pollution in accordance with IEC 61800-5-1	<ul style="list-style-type: none"> <li>Pollution degree 2</li> </ul>

