



ATV650 : Process drive for fluid and gas handling in harsh environment



ATV650 (IP54/55)
Protection against dust and water jet

Power range : 0.75 to 90 kW

Voltage Range: 380 to 480 V

Overload capacity:
110% for 60 sec ND
150% for 60 sec HD

Communication:
Modbus RS485 & Ethernet Modbus TCP

Optional Communication:
Ethernet IP, Profinet, Profibus, Bacnet IP etc.

IOs : 6DI,3RO,3AI,2AO (standard)

Withstand Harsh environment :
 • **IP 54/55 protection**
 • **3C3 & 3S3 coated**
 • **Ambient temperature is 50° C** without deration
 • Graphical detachable keypad IP65

Asset management:
 • Ability to **set pump curves** (data provided by pumps manufacturers)
 • Pipe protection, no flow / low flow protection, dry protection, inlet/outlet protection, cycle start protection, **anti-jam functions**

Process Optimisation
 • Level control & Booster pump applications
 • Multi drive link architecture
 • Master Redundancy

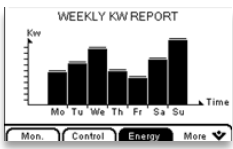
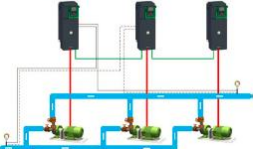
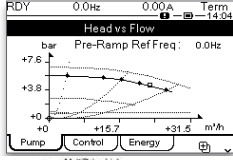
Energy efficiency :
 • Energy monitoring with accuracy >95%
 • **Embedded energy dashboards** - periodic trends
 • Monitor energy consumption, detect the abnormality in power consumption (too high/low)

Future ready IIOT drive :
 • Remote monitoring - **Webserver** is embedded
 • Achilles certified – against cyber threats
 • Ethernet embedded

Service oriented drive:
 • Real time data is available
 • 5 maintenance scheduling events available
 • Diagnostic of IGBT on single click
 • **Dynamic QR code** – troubleshooting

DC choke inbuilt (0.75 – 90kW)

SIL3 safety function integrated



[Altivar Process ATV6XX catalog](#)

Targeted applications

- **Utility**
- **Air Handling Unit**
Fans & Wheels
- **Chiller pump**
Compressor, primary pump
- **Commercial refrigeration**
Compressor
- **Blowers**
- **Roof top chillers**
- **Booster pump**
- **Tunnel ventilation fan**
- **Boiler**
Burner Fan

