

The Altivar 1260

A versatile and reliable medium voltage pump, fan and compressor drive serving multiple segments



Proven, modular and scalable architecture

The Altivar™ 1260 combines the latest vector control strategies with the control of 3-level inverters using the latest semiconductor technologies commanded via fiber optic cables.

Engineered from the inside-out to reduce harmful grid harmonics and put less stress on motor bearings and insulation.

The modular design allows a wide power range while the intuitive structure makes the Altivar 1260 more reliable, and easy to use and maintain across its full life-cycle.

With a standard sine wave filter, the Altivar 1260 can produce a near sinusoidal waveform which can handle long cable lengths and operate with non-converter duty motors.

Simple, high quality design

- > Clean and simple design with high quality components and materials
- > Robust quality and testing programs
- > Flexibility for multiple options and configurations
- > Powerful central processor unit with imbedded programmable logic controller
- > Single voltage auxiliary power feed

Powerful operator interfaces

- > Easy to navigate local HMI that monitors and controls most common converter features, trips, alarms and warnings
- > Web application for remote monitoring, configuration, diagnostics, control, data recording, parameter setting, alarm history and backup

Grid and motor friendly

- > 24 or 36 pulse diode front end minimizes grid harmonics – easily meeting IEEE 519 requirements for harmonic control
- > Standard sine wave filter provides a motor friendly waveform that puts less stress on motor insulation and bearings
- > Motor overload, over-speed protection

Lower total cost of ownership

- > Conservative components raise MTBF
- > Intuitive diagnostics and slide out power modules lowers start-up and repair times
- > Scalable and modular architecture saves commissioning & operator training time
- > High converter efficiency saves energy
- > Low component count = higher reliability

Web Application



Technical Description

Converter	VSI; Vector Control
Power range	700 to 6,500 HP
Voltage	4.16 KV, 3 phase
Frequency	0 to 100 HZ
Topology	24/36 Pulse DFE; 3 level NPC
Semiconductors	Diodes / MV-IGBT's
Drive efficiency⁴	97.7%
Protections¹	See below
Max dv/dt	50V per microsecond
Speed accuracy²	<.01% constant flux
Torque accuracy²	< 1% constant flux
Torque ripple³	< 1% constant flux
Torque response	< 6 ms
Enclosure	Type 1 (IP21), air cooled
Environmental	40 degrees C, <1000m

Drive (H x D) 109" (90" w/o fan) x 43"

Transformer (H x D) 110" X 43"

Optional switch⁵ (H X W X D) 90" X 20" (minimum) X 37"

Optional switch (weight) (weight) 1,756 lbs; 4000 HP and higher, weight is 2,423 lbs

Drive (width) 79" to 237" (700 to 6,500 HP)

Drive (weight) 4,408 to 11,464 lbs

Transformer (width) 67" to 132" based on KVA

Transformer (weight) 6,500 to 19,400 lbs

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Standard Features

- > Close-coupled or separate rectifier transformer
- > Sine wave output filter
- > Door-in-door LV compartment
- > Integrated programmable control
- > Integrated uninterruptible power supply
- > HMI + Web Application
- > Single voltage auxiliary power
- > Wide selection of configurations
- > Conformal coated boards
- > Digital and analog inputs / outputs
- > Isolation meter
- > Security interlock system
- > Flying restart
- > Pre-charge & grounding system
- > E-Stop button
- > Voltage drop functionality
- > Fan condensation heaters
- > Front accessible enclosure
- > Drive and motor protections

Complete Service Portfolio

Commissioning

Engineering

Remote Diagnostics

Technical Support

Maintenance

Training

1. Over current, ground fault, output short circuit, over / low voltage on DC bus, semiconductor status, cooling status, motor phase unbalance; motor protection: overload, over speed

2. Closed loop

3. Field Weakening < 1%

4. At 100% of rated operating point – not including rectifier transformer

5. For 4000 HP and higher, the switch width is 49.5"

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