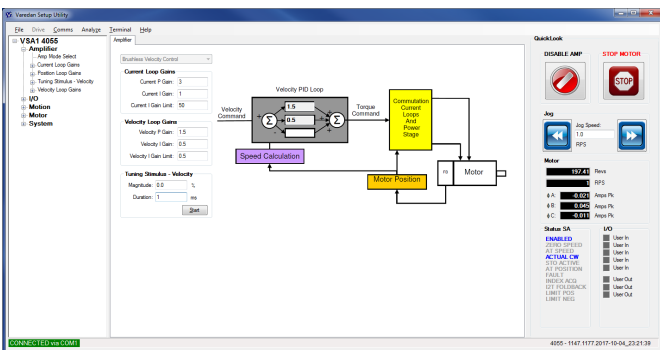


Model	Current Cont./Peak	Bus Voltage	Power Continuous
VSA2-1530	15/30 Amps	12- 400VDC	6KW

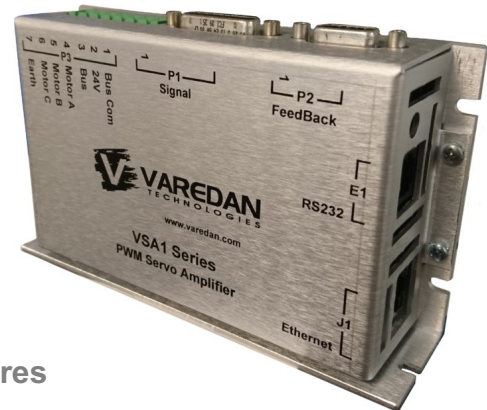
Details

Varedan has a long history of providing reliable high performance linear servo amplifiers for OEM customers. Following that tradition, the VSA Digital PWM Servo Amplifier line extend our product offerings to include advanced digital controls, efficient power delivery, compact footprint, and simple to use tuning and configuration utilities while retaining the reputation for superior reliability and performance.

The PC based VaredanGUI™, with its built-in command stimulus and real-time oscilloscope signal tracer views, reduces the requirements for external equipment while setting up new systems. The standard Ethernet based communications easily connects with all modern computers. Full system configuration can be saved and uploaded for quick and easy drive provisioning.

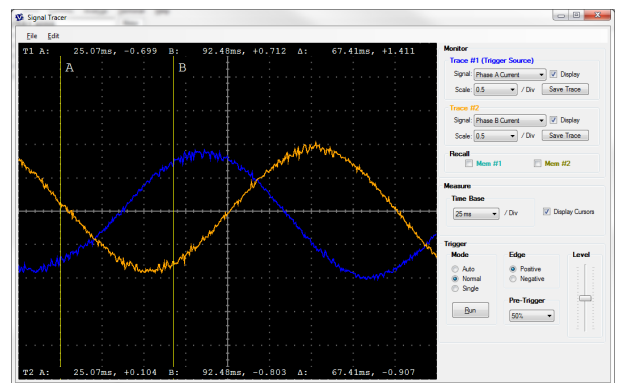


The VSA2-1530 features a powerful microprocessor to provide reliable, high-precision motor control, stored motion profiles, and real-time scope functionality. The VSA2-1530 features all standard modes of operation, from current (torque) mode to position mode, and includes external sine commutation mode for compatibility with advanced controllers and legacy applications. All standard forms of encoder feedback plus an auxiliary quadrature port can be utilized, giving the user the highest level of flexibility and freedom.



Features

- 24V Keep Alive Option
- Fully Opto-Isolated I/O
- Up to 60kHz PWM Rate
- Digital Current/Torque, Velocity and Position Control
- Single and 3-Phase; Linear, Rotary, and Voice Coil Motors
- Ethernet and RS232 Communications (Optional)
- Dual Feedback Ports, Input & Output, Supporting Halls, Quad, Sine and Absolute Digital Encoders
- PC Based VaredanGUI™ for configuration and tuning
- Supports ABSine 2-Phase External Commutation for 3-Phase Motors
- Output Filter Board (Optional)
- Expansion Interface Board (Optional)



Real-time oscilloscope for Easy Setup

OUTPUT CONNECTIONS

3 Digital Outputs, Opto-Isolated (Sink or Source), 5-24V,
 Up to 100mA load current
 1 Analog Output, 0-5V
 Ethernet (UDP) - Transmit
 RS232 – Transmit (Optional)

INPUT CONNECTIONS

5 Digital Inputs, Opto-Isolated (Sink or Source), 5-24V
 2 Analog inputs, Differential, $\pm 10V$
 Ethernet (UDP) - Receive
 RS232 – Receive (Optional)

FEEDBACK
Primary Feedback Port:

Incremental Quadrature Input (Differential),
 Analog Sine/Cos Input (Differential), BiSS,
 EnDat, Step/Direction Input

Auxiliary Feedback Port:

Incremental Quadrature Input/Output (Differential),
 Synthesized Quadrature Output (Differential),
 3 Additional Differential Digital I/O

Halls (Digital):

3 Inputs U,V,W (Single Ended)

KEEP ALIVE VOLTAGE (Optional)

24VDC

MECHANICAL

Dimensions: 7.125" x 4.60" x 1.45"
 Weight: 0.94 Pounds

PWM POWER STAGE

Phases: 3-Phase MOSFET Based Power Section
 Modulation: Center Based Modulation
 Switching Frequency: 20kHz, 40kHz, 60kHz
 Current Loop Bandwidth: Up to 4kHz (dependent on
 switching frequency and motor parameters)

OPERATIONAL MODES

1-Phase Current Torque
 3-Phase Current/Torque (Internal Commutation)
 3-Phase ABSine Torque (External 2-Phase Commutation)
 Velocity Control
 Position Control
 Step/Direction
 Stored Motion
 Cam/Following

FAULT PROTECTION
Amplifier Protection Features

Under-Voltage Protection
 Over-Voltage Protection
 Over-Temperature Protection
 Over-Current Protection
 Short Circuit Protection

Motor Protection Features

Motor Over-Temperature Input (NTC, PTC)
 Continuous Current Limit (I_{2T})
 Peak Current Limit

OPTIONAL FEATURES
Output Filter Board

-3dB Roll-Off Frequency	Peak Current	Max PWM Frequency
2MHz	10A	60kHz
715kHz	10A	20kHz

Expansion Interface Board

RS232 Serial Input/Output

ENVIRONMENTAL LIMITS

0 to 70 deg. C Ambient
 -40 to 85 deg. C Storage
 5 to 95% Relative Humidity. Non-condensing.

Varedan Technologies warrants this product to be free from defects for a period of one year after the date of shipment and according to the Terms and Conditions of Sale.