UNIDRIVE

Universal Motor Servo Drive

THE COMPACT DIGITAL DRIVE FAMILY

designed to drive from 24V to 96V BrushLess, Brushed and AC ServoMotors

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Main Features

- Extremely high efficiency through the use of the latest generation MOSFET

- Advanced management algorithms of speed and torque controls, both are fluid and precise

- 0÷10V Analog Command Source

- CANopen® CiA® DS301 - CiA® DSP402 Interface Profile Velocity and Interpolated Position Mode and Torque Profile Mode
  Elife International is a Member of **CiA® - CAN in Automation**

- Electromagnetic Holding Brake Output with DPR System (Dynamic Power Reduction)

- Integrated Fuse Holder (only up to 80V)

- Telemetry of the internal functions

- H Series is available in the following versions:

  - With Container for use in electrical box
    Size: 144x100x56 mm (plus heatsink provided by the customer)

  - OEM Integration of Drive into Motor Housing
    Size: 110x90x40 mm

- Jogging ability to combine the master/slave between two units to synchronize the many possible ways of working
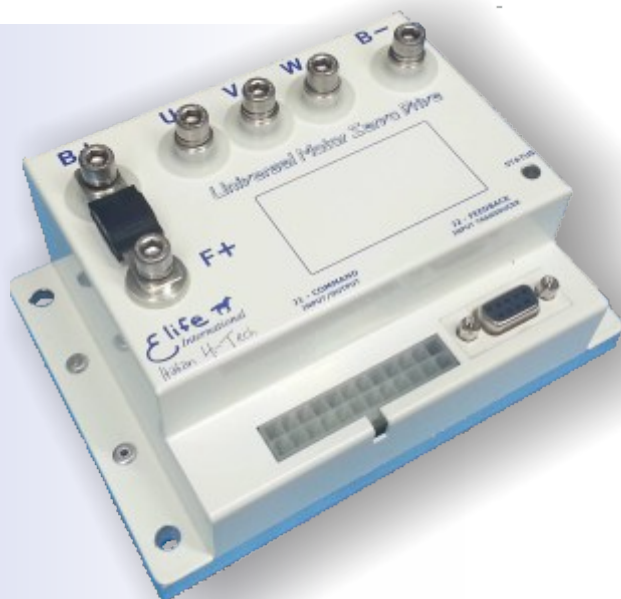
H Series input/output:
   2 Programmable High Powered Digital Output
   1 Programmable 0÷10V 12-bit Analog Input
   5 Programmable Digital Inputs Single Ended
   4 Programmable Digital Outputs Singled Ended

M Series input/output:
   2 Programmable High Powered Digital Output
   2 Programmable 0÷10V 12-bit Analog Input
   1 Programmable 0÷10V 12-bit Analog Output
   8 Programmable Digital Inputs Single Ended
   5 Programmable Digital Outputs Singled Ended

Specifications:
   Four Quadrant Regenerative Operation
   Space Vector Modulation Tecnology
   Sinusoidal and Trapezoidal Commutation Methods
   Programmable Gain Setting
   Fully Configurable Velocity and Position Limits
   PIDF and PID + FF Velocity Loop
   On-the-Fly Mode and Gain Set Switching
   Deceleration ramp and safe Torque Off Input

Elife International

Italian Hi-Tech

UNIDRIVE is the new family of drives designed to control the various types of low-voltage servomotors, specifically for use in battery powered devices.

The compact form was made possible thanks to the high efficiency of the design, made using the highest performing components that today's technology offers.

High efficiency is associated with low consumption, this allows greater autonomy and duration from apparatus to battery.
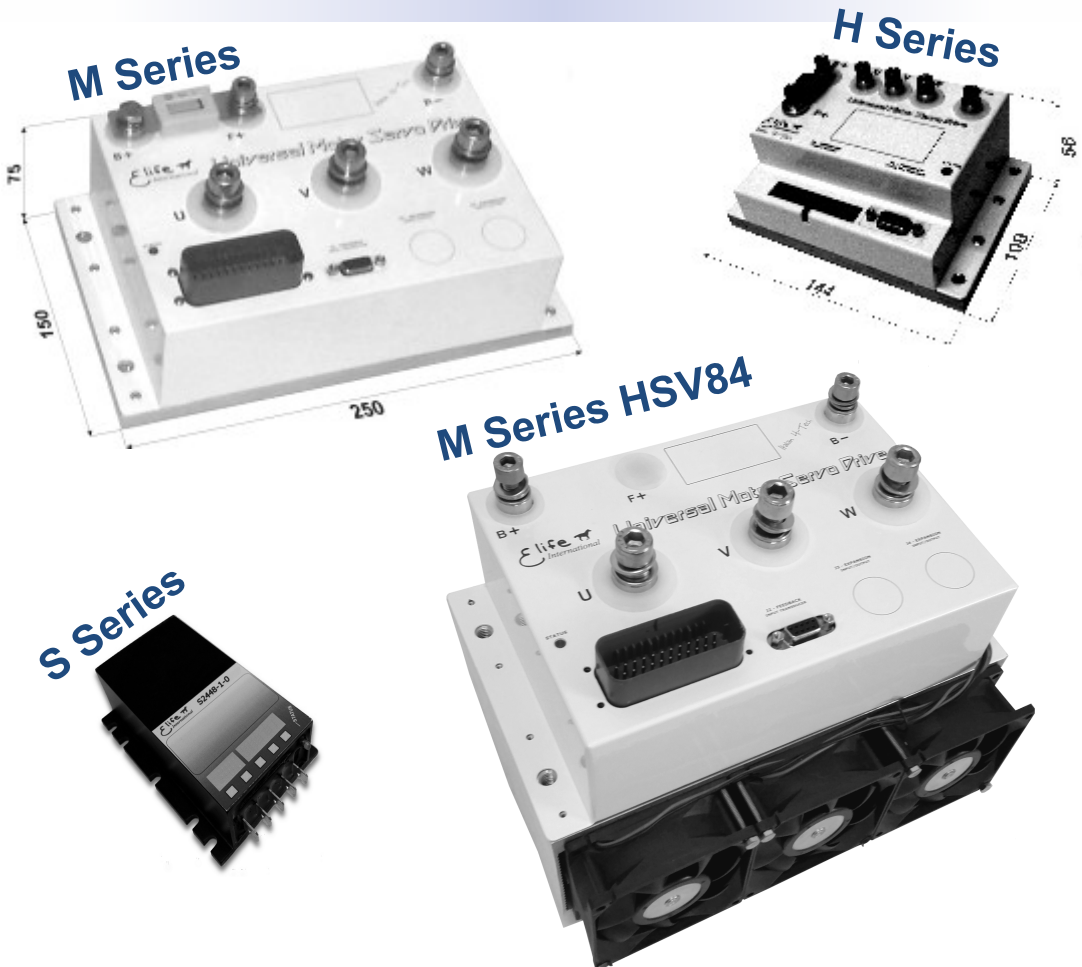
While maintaining a high quality of materials, the design optimization has resulted in a reduction of costs and this has allowed the use of innovative technological solutions.

Selectable Configurations

- **Brushless Synchronous ServoMotors**
- **Brushed ServoMotors**
- **AC ServoMotors**

FEEDBACK INPUT AVAILABLE

- Absolute Resolver
- SinCos
- Hall sensors
- Sensorless
- Incremental Encoder
- Tachometer

M Series

H Series

S Series

M Series HSV84

Nominal Voltage →	24V	32V	48V	72V	80V	96V	192V
Operating Voltage Range →	18Vmin ÷ 35Vmax	18Vmin ÷ 55Vmax	18Vmin ÷ 80Vmax	43Vmin ÷ 90Vmax	43Vmin ÷ 120Vmax	43Vmin ÷ 150Vmax	75Vmin ÷ 250Vmax
I Max Phase Arms ↓							
S series 32	S2424-1-x	S2436-1-x	S2448-1-x		S8080-1-x		
H series 100			H2448-2-x				
H series 150	H2424-3-x	H2436-3-x	H2448-3-x			H4896-6-x	
M series 150	M2424-4-x	M2436-4-x	M2448-4-x			M4896-8-x	
M series 300	M2424-8-x	M2436-8-x	M2448-8-x			M4896-16-x	
M series 400	M2424-10-x HSV84	M2436-10-x HSV84	M2448-10-x HSV84	M7272-20-x HSV84	M8080-20-x HSV84	M4896-20-x HSV84	
M series 450						M4896-25-x HSV84	M96192-80-x HSL50
M series 450						M4896-40-x HSL30	

To select the correct Drive for your Motor you should esteem the max adsorbed power --- Max Drive Power = Vmin batt. * I Battery Max

I Battery Max → S series = 32A   H series = 70A   M series = 400A

Cont. Current (60 min) ↑ with the right Cooling System

All specifications in this Document/Datasheet are indicative and they may be subject to change without notice.

Elife International

Microelectronics

Automation and Instrumentation for Industry

Technology

Research and Development

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