

# Elife-Drive SR Series

VERY COMPACT DIMENSIONS



This technical review shows the main features and technical information of Elife-Drive SR Series. For further information about this series and the technical datasheets of each model, or to define an evaluation of your needs, please refer to our website to contact us.

The main **key features** include:

- Flexible and scalable, designed to control from 12V up to 96V Brushless PMDC and PMSM, Brushed and AC Motors.
- Different types of Feedback Supported:  
*Resolver, SSI Absolute Encoder, SinCos, Hall Sensors, Incremental Encoder, Fa-Coder, etc.*
- Advanced algorithms for predictive speed and torque control and telemetry of the Internal functions
- CANopen<sup>®</sup> communication protocol<sup>1</sup>:  
CiA<sup>®</sup> DS301 and CiA<sup>®</sup> DSP402 (Profile Velocity Mode, Profile Position Mode, Profile Torque Mode and Homing Mode)
- Electromagnetic Holding Brake Output with DPR System (Dynamic Power Reduction)
- European Conformity CE, designed in accordance with EN 60950-1 safety requirements and EMC standards.

## Low Profile Version:



## Specification:

- ✓ Four Quadrant Regenerative Operation
- ✓ Sinusoidal or Trapezoidal Commutation Methods
- ✓ Fully Configurable and Programmable
- ✓ Emergency Ramp and Safe Torque Off (STO) Input

## Main Features:

- ➡ 6 Programmable Single Ended Digital Inputs
- ➡ 4 Programmable 400mA Digital Outputs
- ➡ 1 2A Brake Output
- ➡ 1 Programmable 0÷10V 12-bit Analog Input
- ➡ 1 Programmable 5 or 10V - 100mA Throttle Output

SIZE 1 120x85x38 mm PHASE CURRENT *	NOMINAL BATTERY VOLTAGE - MAX MOTOR POWER		
	12V - 400W	24V - 800W	48V - 1.6kW
	10V ÷ 22V	16V ÷ 34V	28V ÷ 70V
up to 35 Arms	SR12-35-040-x	SR24-35-080-x	SR48-35-1.6-x
up to 70 Arms	SR12-70-040-x	SR24-70-080-x	SR48-70-1.6-x

SIZE 2 145x95x32 mm PHASE CURRENT *	NOMINAL BATTERY VOLTAGE - MAX MOTOR POWER			
	12V - 2.5kW	24V - 5kW	48V - 10kW	72V - 15kW
	10V ÷ 22V	16V ÷ 34V	28V ÷ 75V	46V ÷ 100V
up to 100 Arms	SR12-100-2.5-x	SR24-100-5-x	SR48-100-10-x	SR72-100-15-x
up to 200 Arms	SR12-200-2.5-x	SR24-200-5-x	SR48-200-10-x	SR72-200-15-x

SIZE 3 220x120x32 mm PHASE CURRENT *	NOMINAL BATTERY VOLTAGE - MAX MOTOR POWER				
	12V - 7kW	24V - 14kW	48V - 28kW	72V - 43kW	96V - 56kW
	10V ÷ 22V	16V ÷ 34V	28V ÷ 75V	46V ÷ 100V	65V to 150V
up to 400 Arms	SR12-400-7-x	SR24-400-14-x	SR48-400-28-x	SR72-400-43-x	SR96-400-56-x
up to 600 Arms	SR12-600-7-x	SR24-600-14-x	SR48-600-28-x	SR72-600-43-x	-----

\* The value of the maximum continuous (60 min) RMS phase current is ensured with an appropriate heat sink.



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<sup>1</sup> Elife International S.r.l. is a Member of CiA<sup>®</sup> - CAN in Automation