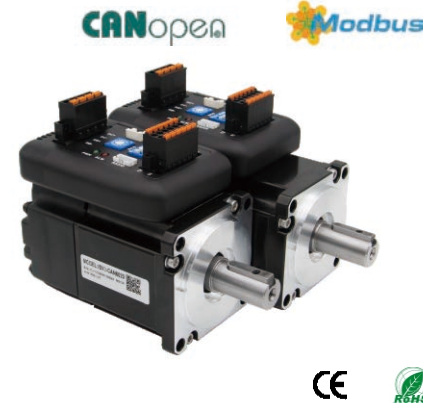


## iSV2 Integrated Servo Motors



**Voltage Input:** 24~70VDC  
**Motor Frame Size:** 60mm, 80mm  
**Power Range(W):** 200, 400, 750  
**Encoder:** 17bit incremental encoder

Position Mode

Velocity Mode

Torque Mode

**Features:**

- RS485 /CANopen
- Highly Intergrated
- IP65 optional
- Save Mounting Space

**Command source:**

- Pulse+Direction
- Modbus RTU
- CANopen

**Inputs and Outputs:**

- MAX Pulse input: 500 kHz(differential input)
- 4 programable digital inputs
- 2 programable digital outputs(2 single-ended)

# Integrated Servo Motors iSV2 Series

- Power range: 200W~750W
- 24Vdc~60Vdc
- Compact size, save mounting space
- Easy configuration



iSV2 series integrated servo motor is a 60mm & 80mm frame size servomotor integrated with a 17bit encoder and a servo drive. At very compact size and with all components integrated, the iSV2 series can save mounting space, eliminate encoder connection & motor wiring time, reduce interference, and cut / reduce cable and labor costs.

**iSV2-RS Version iSV2-RS Series Drive**



**Position/Internal velocity mode**

- RS485 based on Modbus / Pulse+Direction compatible
- Digital input and Digital output allows sink connection/source connection
- 17bit incremental encoder
- New configuration software-MotionStudio  
Online Inertia Ratio Identification
- Motor with brake or without brake
- DIP switch for Modbus communication setting
- 120Ω on board termination resistor(DIP switch selection)

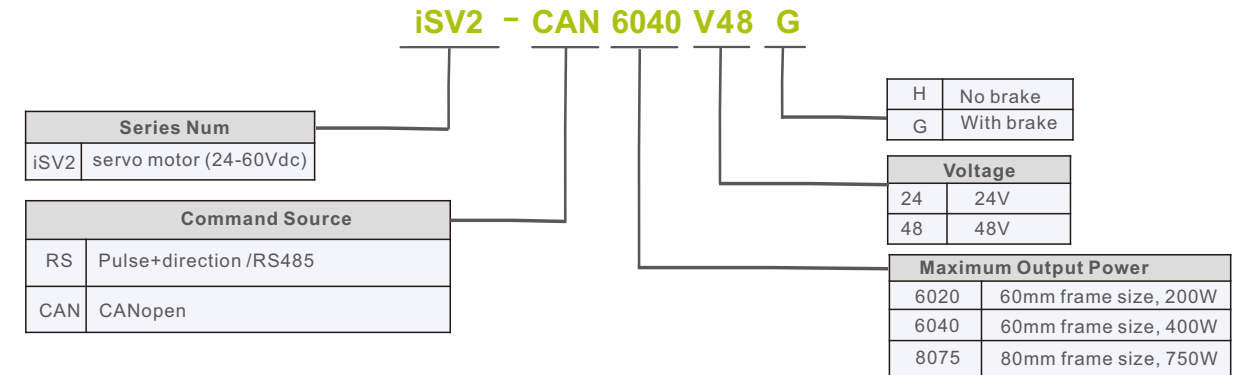
**iSV2-CAN Version iSV2-CAN Series Drive**



**Profile Position/Profile Velocity/Profile Torque/Homing**

- CANopen (CIADS301 & DS402)
- 4 RPDO & 4 TPDO
- Digital input and Digital output allows sink connection/source connection
- 17bit incremental encoder
- New configuration software-MotionStudio  
Online Inertia Ratio Identification
- Motor with brake or without brake
- DIP switch for CAN communication setting
- 120Ω on board termination resistor(DIP switch selection)

## Part Numbers



## Specifications

Servo drive series	iSV2-RS6020V24* iSV2-CAN6020V24*	iSV2-RS6020V48* iSV2-CAN6020V48*	iSV2-RS6040V48* iSV2-CAN6040V48*	iSV2-RS8075V48* iSV2-CAN8075V48*
Modes of operation(iSV2-RS)	Position/Internal Velocity			
Modes of operation(iSV2-CAN)	Profile Position/Profile Velocity/Profile Torque/Homing			
Command source(iSV2-RS)	Pulse+Direction/RS485			
Command source(iSV2-CAN)	CANopen			
Inputs/Outputs	4 programable digital inputs, allow sink input/source input, within the range from 12VDC to 24VDC, 30mA 2 programable single-end outputs			
Feedback Supported	17bit Incremental			
Communication	CANopen / RS485, RS-232 for configuration			



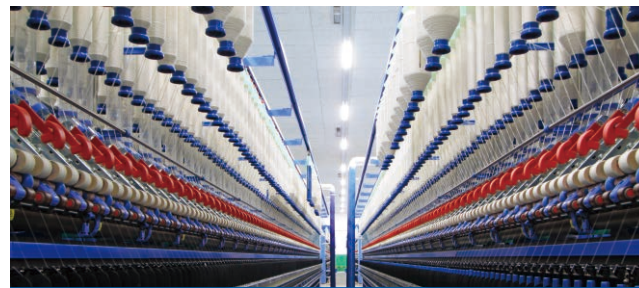
Special machine tool industry

- CNC machine
- Die stamping machine

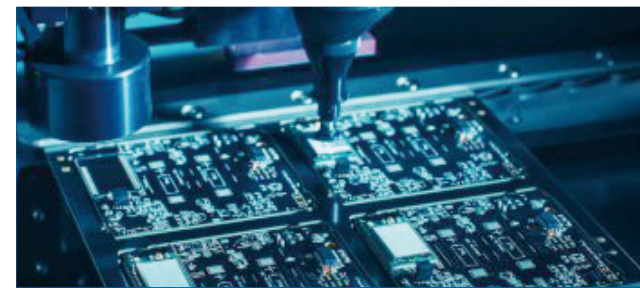


AGV logistics industry

- Warehouse robot
- Sorting robot
- Cross belt sorter
- Inclined guide wheel sorter
- Multi-layer shuttle



- Computer cutting plotter
- Template cutting machine
- Garment proofing machine
- Pattern cutting machine
- Vertical jet cutting machine



Electronic manufacturing equipment

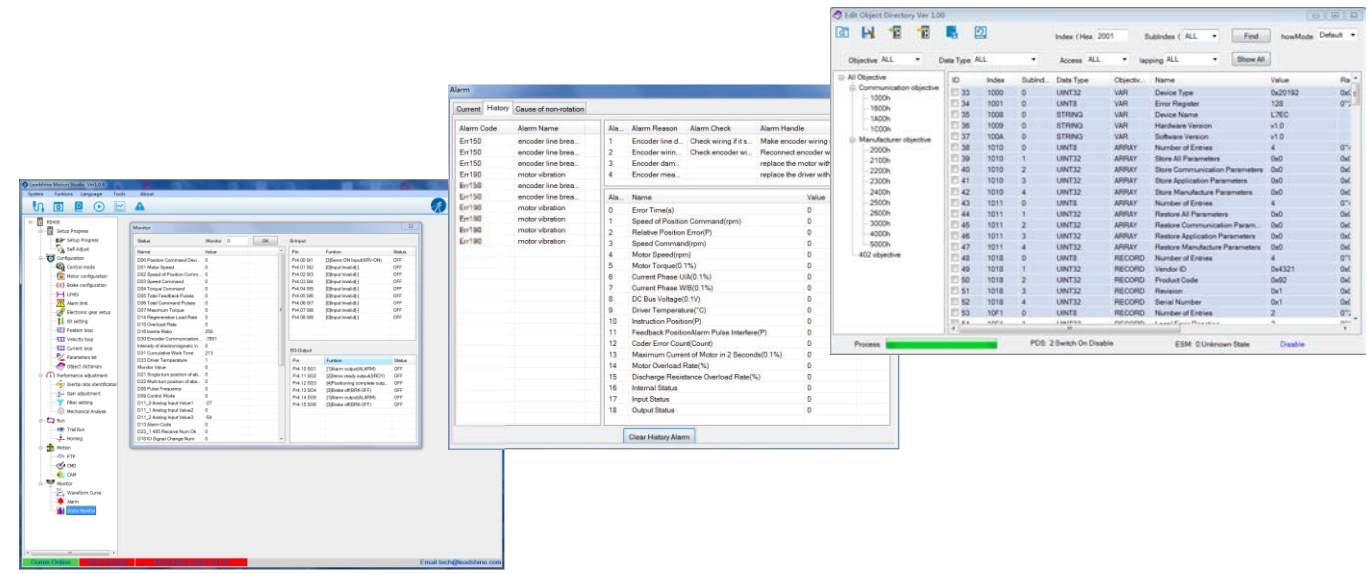
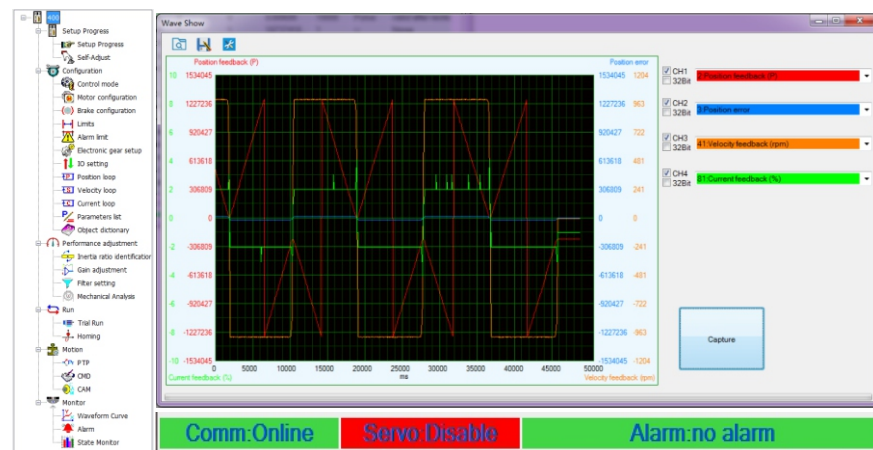
- Dispensing machine
- Screw locking machine
- SMT
- Wire stripping machine
- Lithium battery equipment

Drive model	iSV2-RS6020V24* iSV2-CAN6020V24*	iSV2-RS6020V48* iSV2-CAN6020V48*	iSV2-RS6040V48* iSV2-CAN6040V48*	iSV2-RS8075V48* iSV2-CAN8075V48*
Input Voltage(Vdc)	24-60	24-60	24-60	24-60
Rated Power(W)	200	200	400	750
Rated Torque(Nm)	0.64	0.64	1.27	2.4
Peak Torque(Nm)	1.92	1.92	3.81	7.2
Rated Speed(rpm)	3000	3000	3000	3000
Peak Speed(rpm)	4000	4000	4000	4000
Rated Voltage(Vdc)	24	48	48	48
Weight(kg)	1.1(1.4)	1.1(1.4)	1.5(1.8)	2.6(3.0)
Continuous Current(Arms)	11	6.5	10	19
Peak Current(A)	34	20	28	57
Back EMF Const(V/krpm)	3.6	6.3	8.3	8.6
Inertia(kg*m2*10-4)	0.29	0.29	0.58	1.5
Logic Signal Current(mA)	10	10	10	10
Isolation Resistance(MΩ)	100	100	100	100
Control method	IGBT PWM sinusoidal Wave Drive			
Overload	250% ~ 300%			
Brake resistor	External connection			
Protection rank	IP54			

Figures in ( ) represent the masses with brake.

## Motion Studio - New Configuration Software

- Information such as parameter setting and monitoring are consolidated easily just by connecting a personal computer to servo drive.
- Display parameter setting in list or visual formats, and set parameters by selecting from the drop down list
- Adjust control gain finely on the [Tuning] window manually for better performance.
- State monitoring and 4 channel wave showing with high accuracy.
- Easy to set the values of object dictionary for drive with CANopen version.
- Easy to read/save/download/compare/reset all parameters.



## Servo Motor Connectors and Terminals



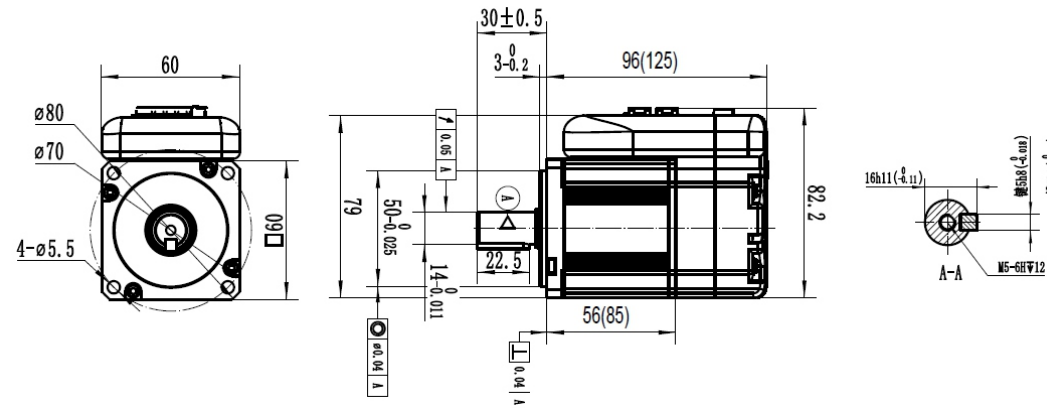
## External Regenerative Resistor

Drive	Recommend resister value(Ω)	Recommend resister power(W)
iSV2-CAN6020V48	10	50
iSV2-CAN6040V48	10	50
iSV2-CAN8075V48	10	100

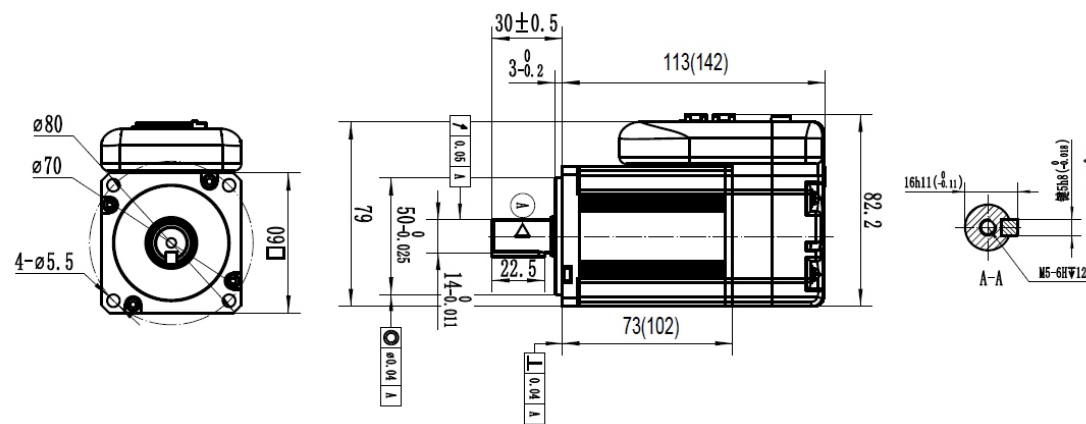


## Drive Mechanical Specifications

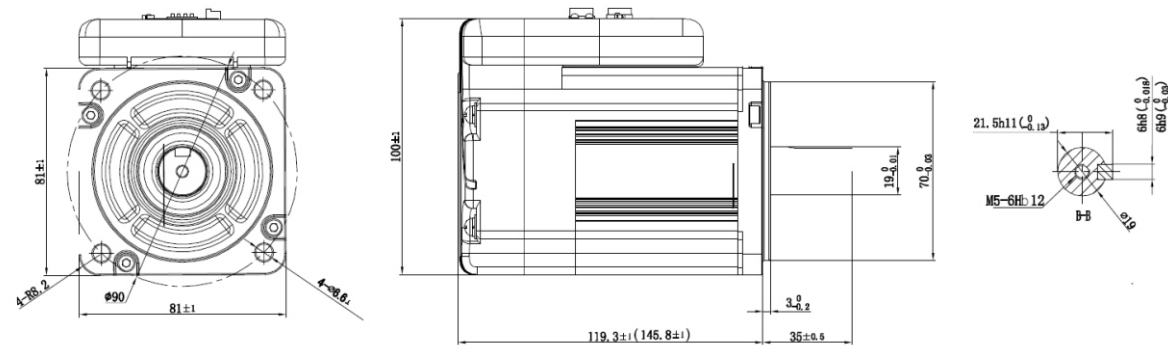
### • 200WW



### • 400W



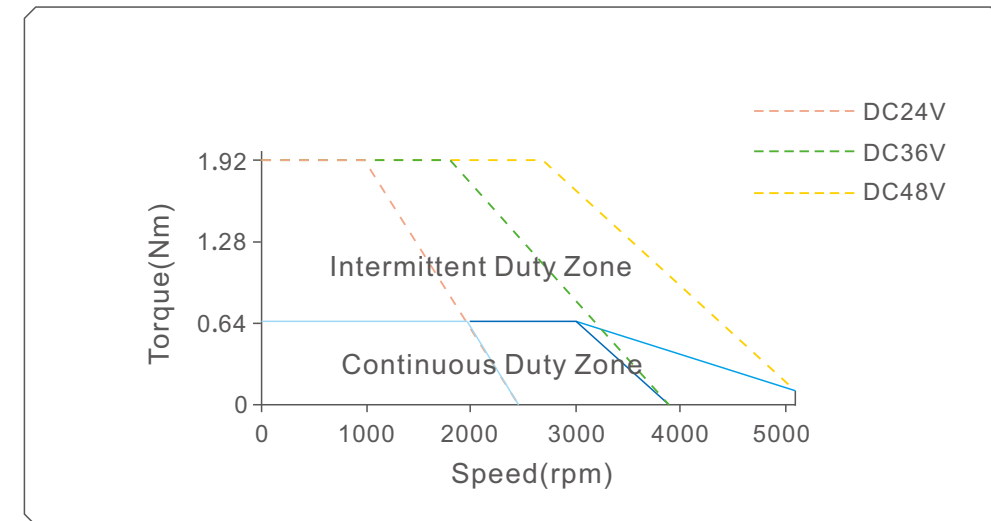
### • 750W



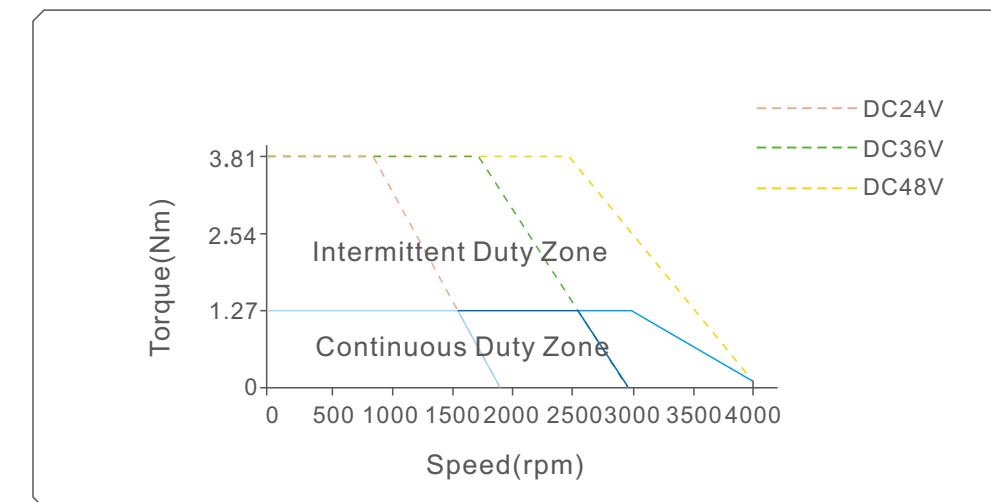
Figures in ( ) represent the dimensions with brake.

## Torque-Speed Curve of iSV2 Motor

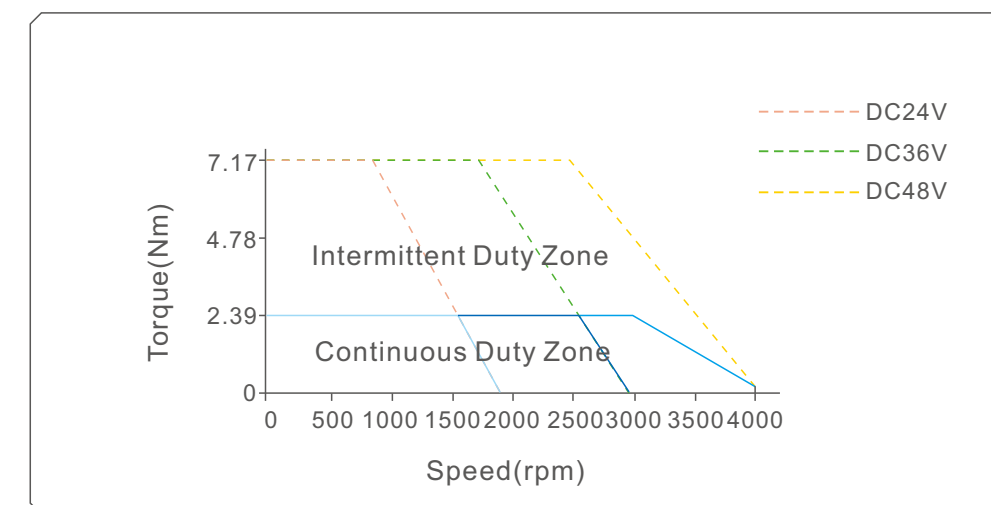
### • 200W motor(iSV2-\*\*20)



### • 400W motor(iSV2-\*\*40)

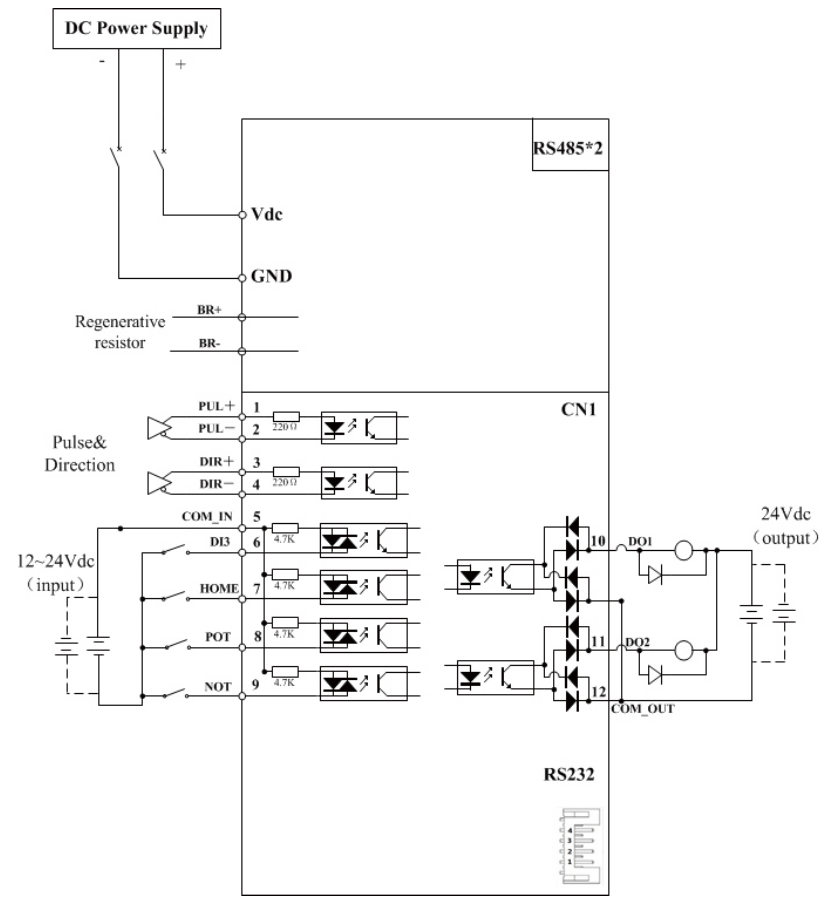


### • 750W motor(iSV2-\*\*75)

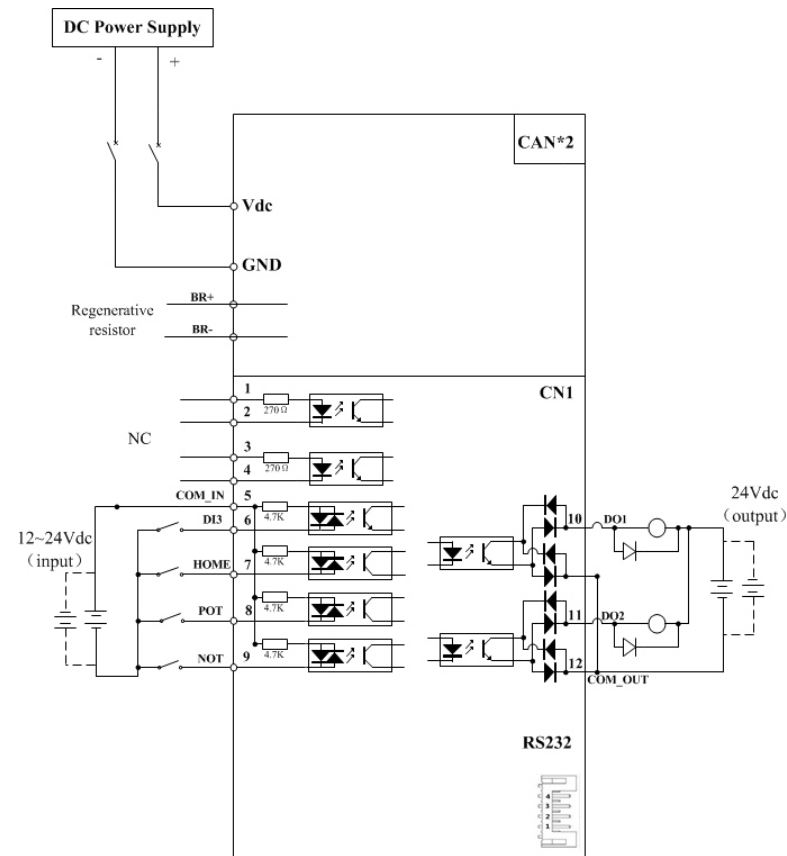


## Drive Connections

### iSV2-RS



### iSV2-CAN



## Power Supplies

- 220VAC ± 10% or 110 VAC ± 10%
- Higher Reliability and mass production
- High efficiency, low temperature rising



### Features

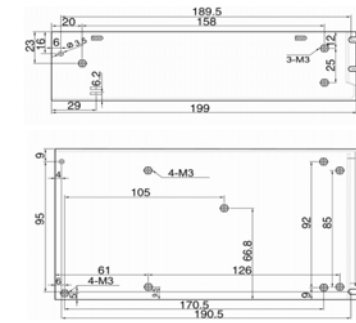
- 1.8 or 3 times overload
- Compact Size, Light in Weight
- Use Switch to select input voltage 220VAC ± 10%
- Over-current, Over-voltage, Low-voltage Protections
- Big Power with High Efficiency
- CE and RoHS

### Electrical Specifications

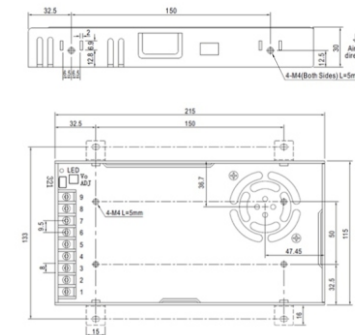
Model	Output Voltage (VDC)	Continuous Current(A)	Peak Current(A)	Input Voltage	Power(W)	Dimensions (mm)	Weight(Kg)
SPS2410(V3.0)	24	10	30	220VAC ± 10%	240	199*110*50	0.8
SPS3611(V3.0)	36	11	33		400	215*115*30	0.6
SPS488(V3.0)	48	8.3	24.9		400	215*115*30	0.6
SPS606(V3.0)	60	6.7	20.1		400	215*115*30	0.6

### Mechanical Specifications

(unit: mm, 1inch=25.4mm)



SPS2410(V2.0)



SPS3611(V2.0)/SPS488(V2.0)/SPS607(V2.0)