

# Dong Yang Servo Power Mode Co.,Ltd

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## A Manual for DYS-30A,50A Car Modeling Governor

### A.Functions & Features

- Power voltage scope:Input voltage 6V~16.8V(2~4Lithium batteries; or 6~12 NiCd / NiHM Cells).
- Working current(30A):Max continuous 30A, instant working current:40A

Working current(50A):Max continuous 40A,working current at 50A can last over 1 minite; instant working current:60A

- Controller, receiver and motor can share the battery (BEC);

Supply 1A current 6V for receiver and SERVO under standard condition.

- **Secure galvanization**

Once galvanization, Startup Not grated if the rocker is not in the threshold position, when the rocker is put in the threshold position, there will be a long beep indicating startup is available.

- **Voltage protection**

If the voltage exceeds the scope once galvanized, the startup will not be granted. And 1 beep alert every 2 seconds comes.

- **Lost remote controlled signal protection**

Motor drive immediately cut off when the signal transmitted between emitter and receiver is bad or instable; alert beep goes and strikes once a second. Normal run continuous when the signal gets recovered.

- **Two-stage temperature protection**

Cool down through limiting power when the temperature reaches the set limit 105°C, if the cooling failed, the main power supply will be cut off immediately and the alert goes with 3 strikes per second. Now, you have to wait the temperature dropping back to normal and galvanize again to resume normal service.

- **High-current protection**

Power supply of motor will be immediately cut off and the alert beeps go with 2 strikes per second when an instant high-current appears. You have to galvanize again to resume the normal service.

- **Halted run protection**

If wheel is locked, the max power output is limited at 30%.

- Auto detective midpoint when power on.When midpoint departure 1.5ms exceed limite 10% will be alerted.

### B.Throttle settings

Follow the next guide to deploy threshold point and the max and min settings of throttle.

- a.Pull the rocker at the max pulse width to record the max forward position.
- b.Galvanize the governor or turn on the controller switch.
- c.Wait 6 seconds, there will be a beep to record the max forward Throttle.
- d.Pull the rocker at the min pulse width to record the max backward position.
- e.Wait 1.5 seconds, there will be a beep to record the max backward Throttle.

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f.Pull the rocker to the threshold point.

g.Wait 1.5 seconds, there will be 3 beeps to record the threshold position and enter READY state.

Re-galvanize to have normal startup.

## Control

You have to pull the rocker to the threshold position to exit the braking when going forward, and to exit the braking when going forward

## Error messag

Normal startup failure by pulling rocker after galvanization with one beep warning per second indicates the controlled signal is lost. If the beep warning comes once every 2 seconds, it means the voltage exceeds rated value.

A sudden low output power limit in the run indicates the temperature protection or battery protection is on.

A sudden cease of the output power in the run indicates the instant High-current protection or battery protection, or temperature protection is

## 4、 Install

Receiver connect to 3 pins plated lead, eg:

Ground.....Brown

5V Power.....Red

Signal.....Orange

Power connection Ground(-).....black

Power connection Positive(+). ....red

Motor connection a .....black

Motor connection b ..... blue

Motor connection c ..... red

