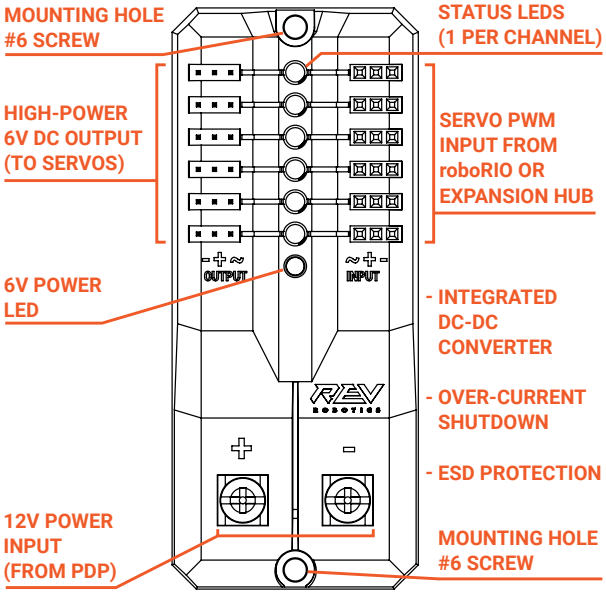
SERVO POWER MODULE QUICK START GUIDE

The REV Servo Power Module is a 6V 90W power injector that enables the use of high-power RC servos in applications where a robot controller cannot provide adequate power.

The following Quick Start Guide describes the Servo Power Module features and the necessary information to get it up and running.

FEATURES



SPECIFICATIONS

Nominal Input Voltage	12V
Operating Voltage Range	7.0V - 20V
Minimum Startup Voltage	9.0V
Output Voltage	6V
Number of Channels	6
Max. Total Output Current (across all Channels)	15A
Max. Total Output Power	90W
Size	3.6” x 1.52” x 0.81”
Weight	2.0oz/57g

ELECTRICAL CONNECTIONS

The Servo Power Module has two screw terminals for 12V power input. It is recommended to use ring or fork terminals designed for #6 or M3 screw terminals.

Using an appropriate wire gauge, 18 AWG or larger, tightly crimp either a ring or fork terminal on the wire. Insert the crimped terminal into the screw terminal and tighten the screw.

The input and output channels accept standard 3-wire 0.1” pitch servo/PWM cables. Please refer to the figure on the right or the case markings for proper orientation.

STATUS LEDs

Each channel has a corresponding status LED that will indicate the sensed state of the connected PWM signal. The table below describes each state’s corresponding LED pattern.

State	Pattern
No Signal	Blinking Amber
Left/Reverse Signal	Solid Red
Center/Neutral Signal	Solid Amber
Right/Forward Signal	Solid Green

OVER-CURRENT SHUTDOWN

If the Servo Power Module detects a total output current larger than 15A it will enter a shutdown mode where the 6V output is disabled until the over-current condition has remedied. While in shutdown the blue power LED will turn off, dim, or flicker indicating the over-current condition is still present.

In the case of frequent over-current shutdowns, ensure that the total stall current of all connected servos does not exceed 15A.

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