

The **Power Card** distributes regulated voltage rails to all subsystems of the vehicle, including the Control Card, Relay PCB, DAQ, and AMS. It ensures stable and isolated power delivery for both low-voltage logic and high-current circuits.

---

## Key Features

- **Multiple Regulated Outputs**

- **24V Output** (primary system power)
- **5V Output** (low-level logic and sensors)

- **Separate Output Channels**

Each voltage rail includes:

- **Sensor/logic isolations**
- **Connectorized outputs for easy routing**
- **Shielded cabling support**

- **Thermal Output Line**

A dedicated *Thermal Out* connection for temperature monitoring or thermal-based shutdown logic.

- **Compatibility**

Provides power to major boards:

- **Control Card**
- **Relay PCB**
- **DAQ Module**
- **AMS**