SPECIFICATIONS OF COMPONENTS

1. LDR Sensors

Specifications

Supply voltage: 4.5V~5.5V DC
Measure current range: -5A~5A

• Sensitivity: 100mV/A

2. Voltage and Current Sensor

3. DC Motor

Specifications

• No-load Speed: 300RPM at 12 Volts;

Torque: 0.08N-m;Power: 7.2W;

• No-load Current: 0.15A;

4. Motor Driver IC- L293D

In a single L293D chip, two h-Bridge circuits can rotate two DC motors independently. Working

 $Pin\ 2 = Logic\ 1$ and $Pin\ 7 = Logic\ 0 \mid Clockwise\ Direction$

Pin 2 = Logic 0 and Pin 7 = Logic 1 | Anticlockwise Direction

 $Pin \ 2 = Logic \ 0 \ and \ Pin \ 7 = Logic \ 0 \ | \ Idle \ [No \ rotation]$

 $Pin 2 = Logic 1 \ and Pin 7 = Logic 1 \ | Idle [No rotation]$

5. Node MCU - ESP-12E ESP8266 WiFiLuaIoTCH340

The NodeMCU is an open-source firmware and development kit(dev kit) that helps prototype IoT products with few luascript lines. The development kit based on ESP8266, integrates general purpose input-output (GPIO), pulse width modulator(PWW), 1-Wire, and ADC all in one board

6. Solar Panel

A photovoltaic (PV) module is a packaged assembly of typically 9×4 photovoltaic solar cells.

7. Arduino IDE