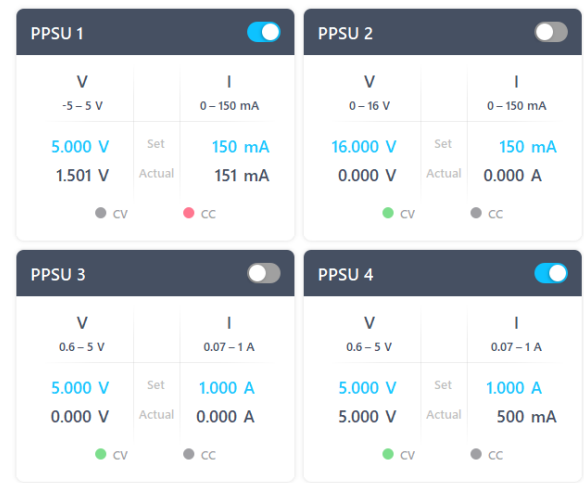
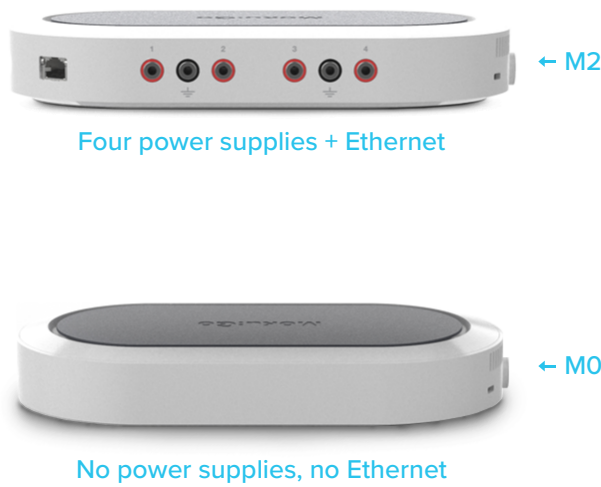


Programmable Power Supply



Moku:Go M2 models are equipped with four programmable power supplies. The power supplies are embedded peripherals that can be independently configured and used in tandem with any of the 14 available Moku:Go instruments. M2 provides -5 to 5 V and 0 to 16 V high-accuracy linear supplies for maximum flexibility in dual-rail and high-voltage applications such as op-amp characterization and communications, plus two 0.6 to 5 V supplies. Each is capable of 1 A output currents for laser and motor applications while also being able to power a wide range of USB peripherals.



Voltage output range
-5 V to +16 V

Max power output
5 W @ 5 V

Operation mode
Constant I or V

Minimum set resolution
1 mV or 1 mA

System integration
Integrated with 14 Moku instruments

Features

- Four independently adjustable power supply channels
- Constant voltage or current mode with auto overvoltage and overcurrent protection
- Fully embedded with up to 14 powerful instruments, including an Oscilloscope, Waveform Generator, and more

Applications

- Op-amp characterization
- LED/laser diode power supply
- USB device powering

Specifications

| | Ch. 1 (M2) | Ch. 2 (M2) | Ch. 3 & 4 (M2) |
|----------------------------|----------------|----------------|-----------------|
| Output voltage | -5 V to +5 V | 0 V to +16 V | 0.6 V to +5 V |
| Output current | 0 mA to 150 mA | 0 mA to 150 mA | 0.07 A to 1 A |
| Set resolution | 1 mV / 1 mA | 1 mV / 1 mA | 1 mV / 1 mA |
| Readback resolution | 1 mV / 1 mA | 4 mV / 1 mA | 4 mV / 1 mA |
| Set accuracy | Voltage | ≤ 1% | ≤ 1% |
| | Current | ±10 mA typical | ± 10 mA typical |
| Readback accuracy | Voltage | ±4 mV ± 1% | ±4 mV ± 1% |
| | Current | ±100 µA ± 1% | ±100 µA ± 1% |
| Effective output impedance | 0.5 Ω | 0.5 Ω | < 0.1 Ω |
| RMS noise | 3.5 mVrms | 3.5 mVrms | 10 mVrms |