2 or 4 Channel Programmable Power Supply

Moku:Go M1 and M2 models are equipped with 2 and 4 channel programmable power supplies. The power supply is an embedded peripheral that can be independently configured and used in tandem with any of Moku:Go's instruments. M1 and M2 both provide -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. The M2 adds 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. Paired with eight other test and measurement instruments, Moku:Go is the ultimate undergraduate lab solution.

Voltage Output Range	Max Power Output	Operation Mode	Minimal Set Resolution	System Integration
-5 V to +16 V	**5 W @ 5 V**	**Constant I or V**	**2.5 mV or 10 mA**	**Operates with 8 T&M Instruments**

Features

- Up to four independently adjustable power supply channels.
- Constant voltage or current mode with auto overvoltage and overcurrent protection.
- Fully embedded with other 8 powerful instruments, such as an oscilloscope, waveform generator, etc.

Applications

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

Specifications

		Ch. 1 (M1 & M2)	Ch. 2 (M1 & 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		2.5 mV / 10 mA	5 mV / 10 mA	5.8 mV / 1 mA (I < 0.5 A) or 15 mA
Readback Resolution		4 mV / 0.1 mA	4 mV / 0.1 mA	4 mV / 0.1 mA
Set Accuracy	**Voltage**	≤ 1%	≤ 1%	2 %
	Current	±10 mA typical	± 10 mA typical	± 10 mA typical
Readback Accuracy	**Voltage**	±4 mV ± 1%	±4 mV ± 1%	±4 mV ± 1%
	Current	±100 µA ± 1%	±100 µA ± 1%	±100 µA ± 1%
Effective Output Impedance		0.5 R	0.5 R	<0.1 R
RMS Noise		3.5 mVrms	3.5 mVrms	10 mVrms