

SEED-106990268



PRODUCT DETAILS

MDP (Mini Digital Power System) is a system of programmable linear DC power supply based on a modular design, capable of connecting different modules for use as needed.

Current Functional Modules: Display Control Module、 Digital Power Module
Modules in Develop: Digital Signal Generator Module、 Electronic Load Module
、 Power Charger Module、 Battery Pack Module

MDP-XP consists of a display control module and a digital power module. Through 2.4G wireless connection, it achieves multichannel free combination at the power of 90W per channel. MDP-XP is a high cost-effective programmable linear DC power supply, featuring indicators, stability, reliability and distinct user interface comparable with professional power supplies; it also provides programmable output, timing output, sequential control, automatic compensation, and other powerful functions, so as to meet diversified testing needs.

MDP-M01 Display Control Module: equipped with a 2.8-inch TFT screen, it can display the voltage-current waveform in real-time, support data statistics, and automatically pair with and control six sub-modules (digital power modules), with dual thumb wheels and 90-degree scrolling user-friendly design.

MDP-P905 Digital Power Module: high-efficiency linear output, 0.25mV ripple wave, high-speed transient response, and supporting precise fine-tuning.

Product Characteristics:

- 2.4G wireless connection, supporting a Display Control as well as six Digital Powers.
- DC wide voltage input between 4.2V and 30V reduced up to 2.7V after startup.
- High-speed transient response and over current protection, as fast as 4 μ S.
- Extremely low load regulation and intelligent line loss compensation.
- High efficiency and natural heat dissipation with 90W of the capacity load.
- Support positive & negative pressure, series pressurization, parallel current sharing, free combination of collaborative load, and intelligent power allocation.
- Security Protections: input overvoltage, under-voltage protection, anti-reverse connection protection, anti-backflow protection, overtemperature protection, and over current protection.

Applications:

- Universal tests and teaching experiments in the R&D laboratory.
- Maintenance of cellphones, laptops and other digital products.
- Power supply testing and data logger of RF and microwave circuits or modules.
- Supply purified power for high-accuracy digital-analog hybrid circuits and Hi-Fi audio devices.
- Property verification and fault diagnosis of devices and circuits.
- Quality control and quality inspection.
- Emergency power supply for model airplanes and vehicles.

Specifications:

Mode	MDP-XP		
Input	DC4.2V-30V(After startup 2.7V),100mA-6A,Support QC3.0		
Output	30V/5A,90W		
Adjustment rate	Load adjustment rate $\leq \pm 0.01\%$		
	Power adjustment rate $\leq \pm 0.01\%$		
Ripple and noise	250uVrms/3mVpp		
Transient response time	$\leq 4\mu s$		
Line loss compensation range	5mR-100mR		
Protection	Input over-voltage, under-voltage, anti-reverse, output anti-backflow, over temperature		
Data record	Max storage: 7MB, Max recording time: 24 hours.		
Others	Automatically shut down and enter the micro-power mode		
	Support USB firmware upgrade		
	Support user calibration		
Specification		Size	Weight
	MDP-M01	101.5x64x12mm	133g
	MDP-P905	107x66x13.6mm	143g

Part List:

1 x MDP-M01

1 x MDP-P905

2 x 4mm Banana Plug to Alligator Clip

1 x 2.5mm Audio to Micro USB Cable

1 x User Manual