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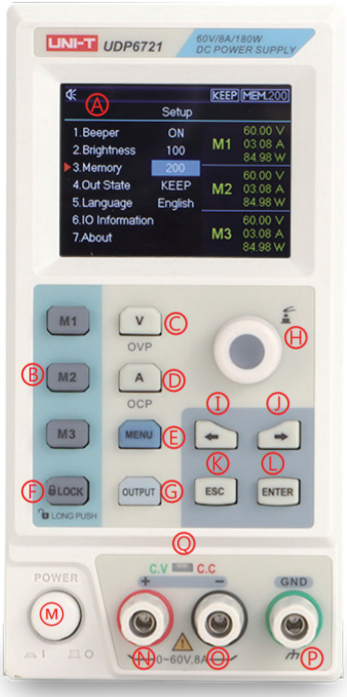
Data Sheet

UDP6720 Series DC Power Supply

Main Features

- Fully digital control
- Full scale high resolution:10 mV/1mA
- Low ripple and noise
- Software correction function
- Minimum overall dimension
- HD LCD display
- Remote compensation
- Support RS232 communication
- Fan intelligent regulation
- Constant voltage and constant current output
- High reliability: overvoltage / overcurrent / overtemperature protection function
- The output is controlled by a switch
- High quality and high cost performance
- Multiple groups of output voltage / current can be preset: 3 × 200 groups

DC Power Supply Panel



Ⓐ LCD display Ⓑ Store shortcuts Ⓒ Voltage setting key Ⓓ Current setting key

Ⓔ Menu key Ⓕ Keyboard lock Ⓖ Output key Ⓗ Rotary encoder

Ⓘ Shift right key Ⓙ Shift left key Ⓚ Return key Ⓛ Confirm key Ⓜ Power switch

Ⓝ Positive output terminal Ⓞ Negative output terminal Ⓟ GND terminal

Ⓠ Output status indicator Ⓡ Remote compensation terminal

Ⓢ Input source selection terminal Ⓣ AC socket Ⓤ Fuse slot Ⓥ RS232

Ⓦ Fan Ⓧ Protected GND

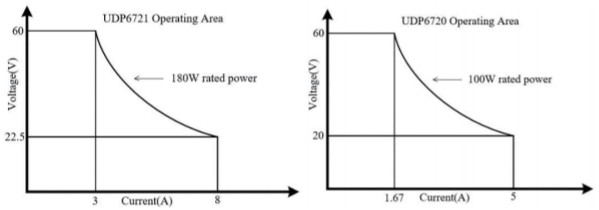
Product Introduction

UDP6720 /UDP6721 switching DC power supply has a wide range of voltage and current utilization, leading the same type of power supply. The power ratio reaches 3.0. One machine can replace multiple small power supplies to reduce your repeated investment.

It is equipped with RS232 communication interface as standard and supports SCPI protocol to facilitate remote control. The remote compensation module can avoid the inaccurate test caused by the voltage drop on the load line. HD LCD display brings better experience to measurement and debugging.

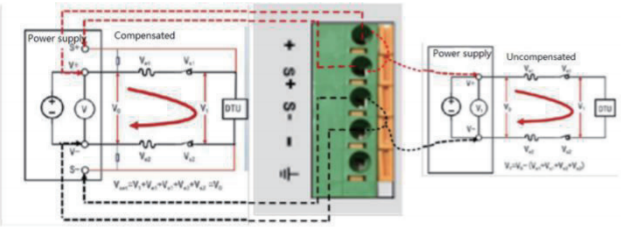
Wide range output

series is a wide range and high efficiency DC power supply with an output power ratio of 3.0. The output range is a wide range surrounded by the maximum voltage, maximum current and maximum power. One power supply can replace multiple small power supplies, saving the purchase cost.



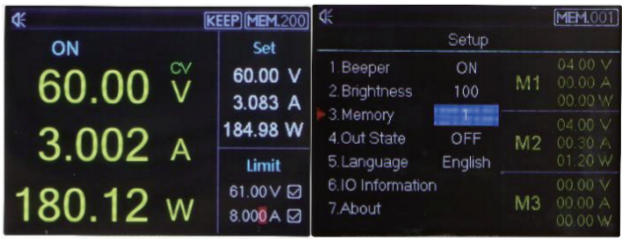
Remote compensation

TheUDP6700 series provides remote compensation terminals. Connect S + S - to the load end to realize remote compensation. At this time, the voltage value echoed by UDP6720 is the remote load voltage value. Reduce the impact of long-distance wires on voltage.



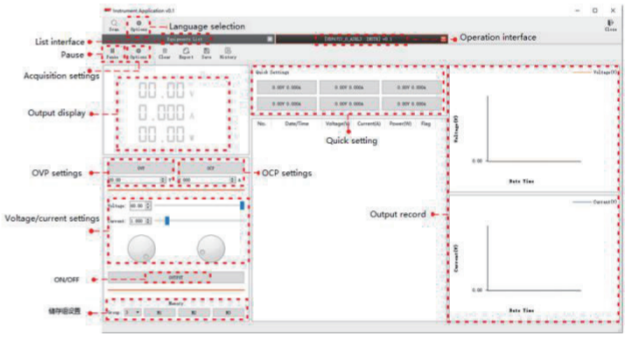
LCD full color display

UDP6700 series adopts 2.8inch full-color LCD display to show users more display contents without repeated reading and recording. It also provides interaction of multiple parameters, which can be set according to your needs.



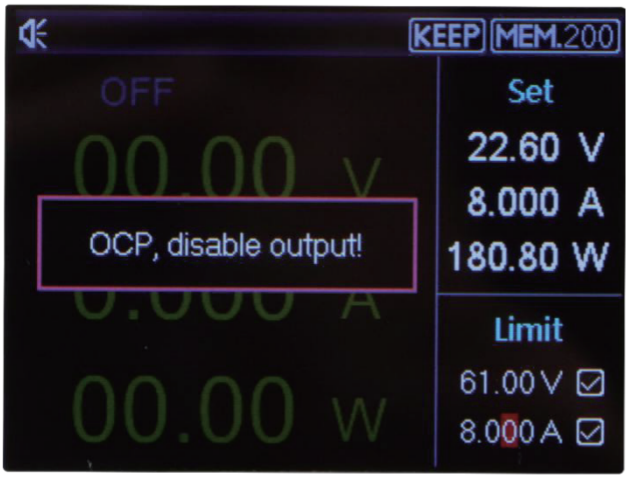
Remote control

This series of power supply provides RS232 serial interface and supports SCPI protocol. It is equipped with upper computer software, which can set, view and carry out statistical work on PC. The chart on the right records the change trend of data during use. Help you with data analysis.



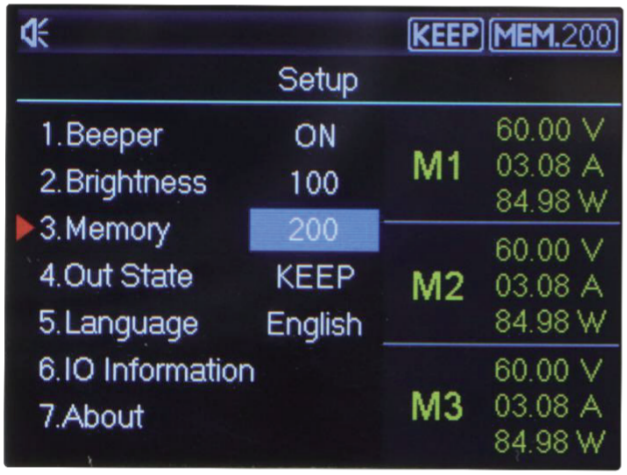
Protection function

Long press "V" and "A" to start OVP and OCP settings. After enabling the protection function, when the power output reaches the protection value, an alarm will be triggered and the output will be closed to protect the equipment. The instrument is equipped with intelligent adjustable fan, and OTP protection will be started when the instrument temperature is too high.



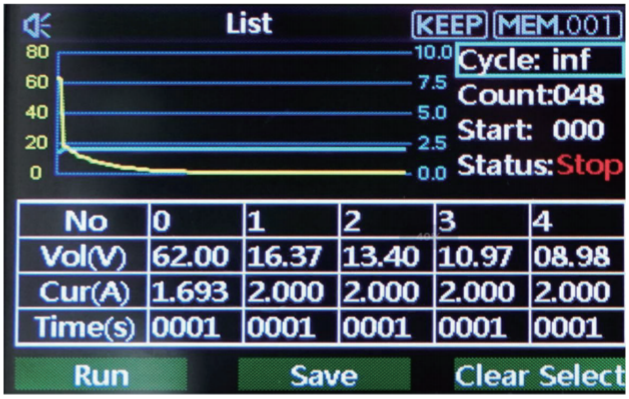
Save 600 groups of settings

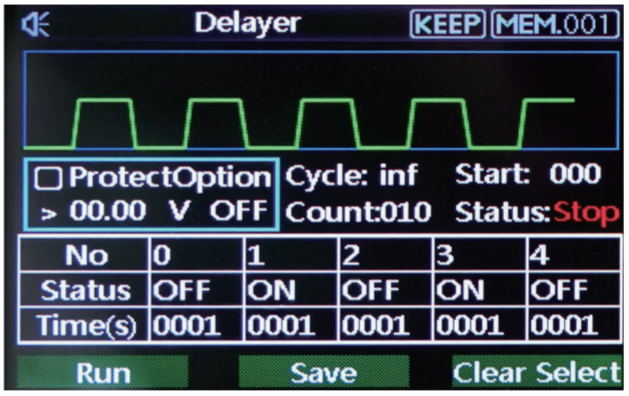
UDP6720 series provides 200 groups of M1, M2 and M3, with a total of 600 preset groups. You can store your diverse needs and improve setup efficiency.



List & delayer function

UDP6700 series power supply has list and delayer functions. Provides 48 sets of editable points. Users can customize the output list to realize automatic measurement. You can also edit the delayer function to realize the power delay and on-off operation. These two functions will bring you automation convenience.





Technical Specification

Model		UDP6720	UDP6721
Channel	Channel	1	1
Output Rating	Voltage	0~60V	0~60V
	Current	0~5A	0~8A
	Power	100W	180W
Load Regulation	Voltage	<0.01%+3mV	<0.01%+5mV
	Current	<0.01%+3mA	<0.01%+5mA
Line Regulation	Voltage	<0.01%+3mV	<0.01%+5mV
	Current	<0.1%+3mA	<0.1%+5mA
Programming Accuracy	Voltage	<0.05%+10mV	<0.05%+10mV
	Current	<0.2%+2mA	<0.3%+5mA
Read back Accuracy	Voltage	<0.05%+10mV	<0.05%+10mV
	Current	<0.2%+2mA	<0.3%+5mA
Ripple	Voltage	<2.0mVrms	<5.0mVrms
	Current	<5.0mArms	<8.0mArms
Rise time	CV mode	≤300ms (No load 60V)	≤300ms (No load 60V)
Set resolution	Voltage	10mV	10mV
	Current	1mA	1mA
Readback resolution	Voltage	10mV	10mV
	Current	1mA	1mA
Temperature coefficient	Voltage	≤100ppm/℃	≤100ppm/℃
	Current	≤200ppm/℃	≤200ppm/℃
Display	Display	2.4-inch LCD, 4-digit display	2.4-inch LCD, 4-digit display
Dimension	W*H*D	87*174*255 (mm)	87*174*255 (mm)
Weight	Net	<2.5kg	<2.5kg
Interface	Interface	RS232, Remote compensation	RS232, Remote compensation
Input	Voltage	AC:110(±10%)V/220(±10%)V	AC:110(±10%)V/220(±10%)V
	Frequency	50Hz/60Hz	50Hz/60Hz
Environment	Operating temperature	0℃~45℃	0℃~45℃
	Operating humidity	20%~80% (Non condensing)	20%~80% (Non condensing)
	Storage	-20℃~70℃	-20℃~70℃
	Altitude	≤2000m	≤2000m
	Pollution degree	2	2

*The UDP6720 series have been certified by CE, cETLus.

Standard accessories	
Alligator clip test lead double parallel	Red + Black / OD: 3.6mm/PVC double parallel (3.0 * 6.0mm2) / 1200mm / 220V / 10A standard Ø4mm lantern head plug red / Black (RoHS)
Power cable	Fits the standard of destination country

Warranty

Three-years warranty, excluding probes and accessories.

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