



IT6720

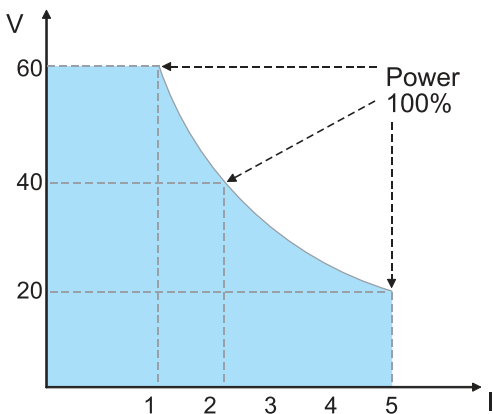
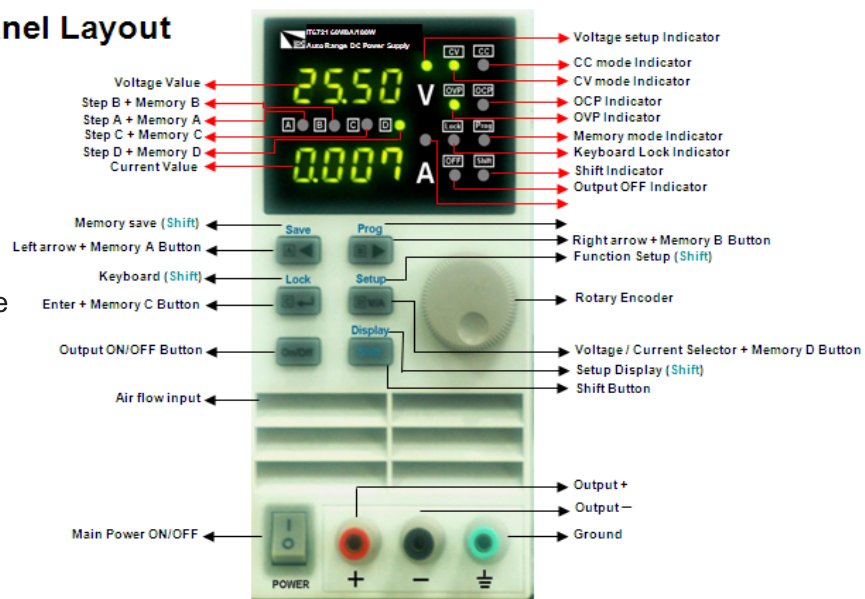
IT6720—The most economic power supply with high-performance

IT6720 have the widest voltage and current utilization.  
ITECH introduces the digital-control DC power supply with the highest power ratio in the field, which have the widest voltage and current utilization and greatly widen the range of application. With the capacity of 100W, voltage output of 60V, current output of 5A, they can control the change rates of the voltage and current automatically. The power ratio can be up to 3 times. One IT6720 can substitute previous 60V\*1.6A/ 32V\*3A/ 20V\*5A 3 kinds of models to save your cost .

■ Feature

- Completely digital-control
- 10mV/1mA high accuracy and resolution
- Low ripple and noise
- CC/CV modes
- Minimum size to save space
- Highlight LED display
- High stability OCP/OVP/OTP protection
- Most economic digital-control high-performance power supply
- Full scale 60V/5A , resolution 10mV/1mA , no need to switch
- On/off controlling

Panel Layout



IT6720 I-V curve graph

Flexible voltage and current configuration make you complete 100% power output as long as within 20V.

Specs

		IT6720	IT6721
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	<0.1%+2mA	<0.3%+5mA
Ripple	Voltage	2mVrms	2.5mVrms
	Current	3mA <sub>rms</sub>	3.5mA <sub>rms</sub>
Dimension	W*H*D	88*175*282	88*175*282
Weight	Net	2.5Kg	3.5Kg



IT6720 60V/5A/100W  
IT6721 60V/8A/180W



Rear panel of IT6720/6721

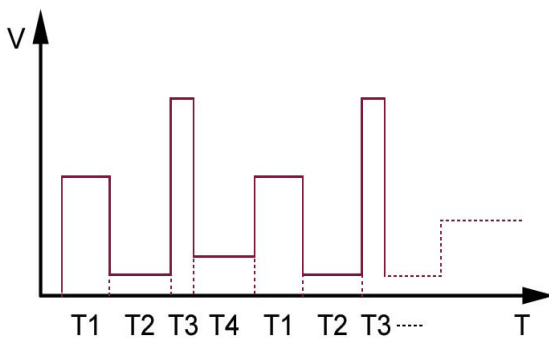


**Feature**

- VFD display
- Convenient data entry via knob or numerical key pad
- High accuracy and high resolution
- Low ripple and low noise
- Intelligent fan control, energy conservation, noise reduction
- Standard communication
- Built-in RS232/USB/GPIB interface
- Output voltage and current values accordance with procedure (LIST mode)
- Standard SCPI protocol
- Timer function (0.1s-99999.9s)

**List mode**

List mode allows user to create a sequence of steps, store it into the power supply's non volatile memory and execute it. The input parameters for generating a list include the name of the list file, the input steps (no more than 150 steps), the step time (the minimum is 100ms) and the value of each step.

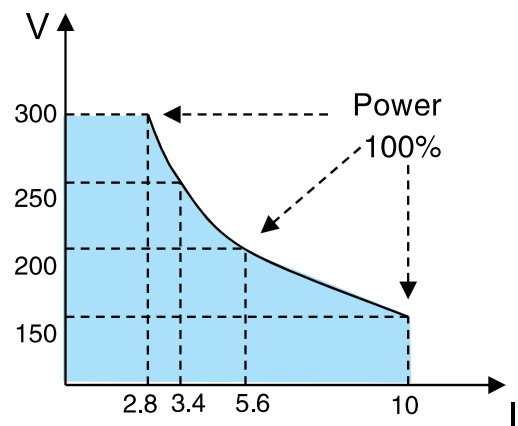


LIST output waveform

**IT6700H high voltage programmable DC power supply**

IT6700H series are high-voltage and flexible range single output power supplies. With an easy-to-read VFD display, high accuracy and resolution up to 10mV/10mA. It allows to generate and store programmed sequences directly from the front panel. Standard RS232, USB, GPIB interfaces to provide flexibility for remote operation. IT6700H is a compact, laboratory grade power supply well suited for application in design field, production or university labs.

Model	Voltage	Current	Power
IT6723G	600V	5A	850W
IT6723B	150V	20A	850W
IT6723C	32V	110A	850W
IT6723	80V	40A	850W
IT6723H	300V	10A	850W
IT6724B	150V	20A	1500W
IT6724C	32V	110A	1500W
IT6724H	300V	10A	1500W
IT6724G	600V	5A	1500W
IT6724	80V	40A	1500W
IT6726B	160V	40A	3000W
IT6726H	300V	20A	3000W
IT6726G	600V	10A	3000W
IT6726V	1200V	5A	3000W



IT6723H I-V curve

## Specifications

		IT6723H	IT6724H	IT6726H	IT6724G	IT6724C	IT6724
Output Rating	Voltage	0-300V	0-300V	0-300V	0-600V	0-32V	0-80V
	Current	0-10A	0-10A	0-20A	0-5A	0-110A	0-40A
	Power	0-850W	0-1500W	3000W	1500W	1500W	1500W
Load Regulation	Voltage	≤0.01%+60mV	≤0.01%+60mV	≤0.01%+60mV	≤0.01%+60mV	≤0.01%+10mV	≤0.01%+10mV
	Current	≤0.1%+20mA	≤0.1%+20mA	≤0.1%+20mA	≤0.1%+20mA	≤0.1%+20mA	≤0.1%+20mA
Line Regulation	Voltage	≤0.01%+60mV	≤0.01%+60mV	≤0.01%+60mV	≤0.01%+60mV	≤0.01%+10mV	≤0.01%+10mV
	Current	≤0.1%+20mA	≤0.1%+20mA	≤0.1%+20mA	≤0.1%+20mA	≤0.1%+20mA	≤0.1%+20mA
Setup Resolution	Voltage	100mV	100mV	100mV	100mV	10 mV	10 mV
	Current	10mA	10mA	10mA	10mA	10mA	10mA
Readback Resolution	Voltage	100mV	100mV	100mV	100mV	10 mV	10 mV
	Current	10mA	10mA	10mA	10mA	10mA	10mA
Programming Accuracy	Voltage	≤0.01%+60mV	≤0.01%+60mV	≤0.01%+60mV	≤0.01%+60mV	≤0.01%+10mV	≤0.01%+10mV
	Current	≤0.1%+20mA	≤0.1%+20mA	≤0.1%+20mA	≤0.1%+20mA	≤0.1%+20mA	≤0.1%+20mA
Read back Accuracy	Voltage	≤0.01%+60mV	≤0.01%+60mV	≤0.01%+60mV	≤0.01%+60mV	≤0.01%+10mV	≤0.01%+10mV
	Current	≤0.1%+20mA	≤0.1%+20mA	≤0.1%+20mA	≤0.1%+20mA	≤0.1%+20mA	≤0.1%+20mA
Ripple	Voltage	≤150mVp-p	≤150mVp-p	≤300mVp-p	≤150mVp-p	≤70 mVp-p	≤70mVp-p
	Current	≤30mArms	≤30mArms	≤30mArms	≤30mArms	≤150 mArms	≤50mArms
Temp.coefficient	Voltage	≤0.01%+60mV	≤0.01%+60mV	≤0.01%+60mV	≤0.01%+60mV	≤0.01%+10mV	≤0.01%+10mV
	Current	≤0.1%+20mA	≤0.1%+20mA	≤0.1%+20mA	≤0.1%+20mA	≤0.1%+20mA	≤0.1%+20mA
Dimension	W*H*D	214.5mmW×88.2mmH×445mmD					
Weight	Net	6Kg					

## Accessories

### Standard accessories

Power cord

User manual

Calibration report

USB straight cable

please download IT7000 software from [www.itech.sh](http://www.itech.sh)

### Optional

IT-E151 rack mount kit

## The rear panel of IT6700 series DC power supply

