

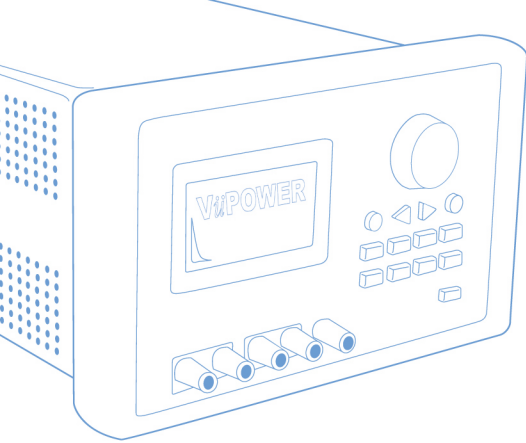
Be Prepared with

**V*i*POWER**



**OXXO™** Series Power Supply

**V*i*POWER CORP.**



www.vupower.com

## COMPANY INFO.



Promising Company with Creative Thinking

**ViiPOWER** offers a wide range of dc power supplies especially under 360W.

As a pioneer of programmable dc power supply in Korea, **ViiPOWER** has earned a reputation with over 10 years of experience and become a well-known brand in the test & measurement industry in Korea.

**ViiPOWER** continues its technological leadership by offering a reliable programmable dc source within compact size fit for bench-top as well as automated test equipment applications.

**ViiPOWER** sales and service network provide technical assistance worldwide which the products are distributed through.

## Ordering Information

Inquires are welcome concerning our programmable dc power supplies and modifications for specific application. Written quotations are valid for 30 days unless otherwise noted. All sales are subject to our Standard Sales Terms and Conditions. Product specifications are subject to change without notice for better performance.

### Evaluation units

Product evaluation is important in selection of equipment. A unit is available for electrical and mechanical testing in your application for 7-day period. There is required to deposit 50 percent of unit price. The balance will be invoiced beyond the testing period.

### Ordering

Please specify the product name, model number, quantity, and delivery details. Technical assistance in selecting equipment for your application is available from our people at the field office nearest you. If you need more detailed information for specific application, please contact directly to our office by fax or e-mail.

### Payment

Shipment is made against T/T in advance if the total amount is less than a thousand U.S. dollars. If the buyer wants to submit an order with irrevoca-

ble at sight Letter of Credit, it must be issued by a first class, international bank, satisfactory to us. Currency of payment shall be in U.S. Dollars.

### Spare parts

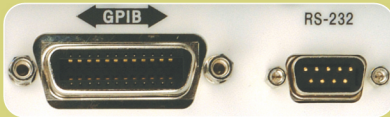
**ViiPOWER** maintains a full inventory for immediate shipment at least more than 2 years.

Customer may recalibrate, troubleshoot or repair products as described in the instruction manual without voiding the warranty. Technical advice will also be provided directly from our experienced engineer when we recognize that our customer faces any trouble with our equipment.

### Warranty

**ViiPOWER** maintains a year warranty unless otherwise notice. Warranty replacement parts are available to customers at no charge. When the faulty unit is to be serviced in our factory, the freight must be prepaid.

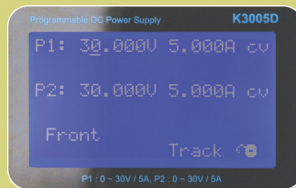
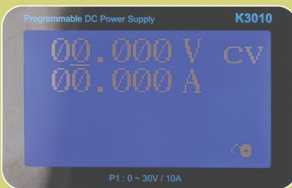
# Be Prepared with **ViiPOWER**



- GPIB and RS-232 standard interface(K Series)



- Rear output enable



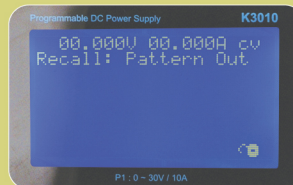
- Resolution at full range : 1mV / 1mA



- Remote sense against voltage drop.
- Isolated dual output(Dual models only).
- Low ripple & noise.
- Fast transient response.
- DUT protection by OVP & OCP.



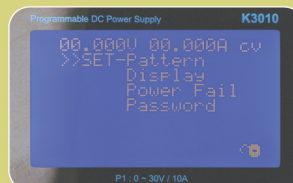
- Store / Recall function by nonvolatile storage of 10 settings.



- Pattern output operation(Model K)



- Encoder switch for easy setup with feeling of clicking.
- Lock function to prevent any mistake on front keys(Except "Output ON / OFF" key).
- Auto tracking function(Dual models only).



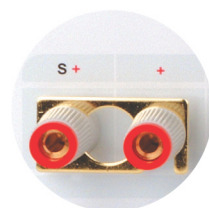
- All-in-one function at "Setup" menu.





- 

- Product Test
- ATE
- R & D
- Labs





# Programmable DC Power Supply Feature Description Index

RangeMax PowerMax VoltageMax Current		Model K							
		Single output					Dual output		
		K1810	K3010	K3003	K3005	K6003	K3003D	K3005D	K6003D
		180W	300W	90W	150W	180W	90W x 2 180W	150W x 2 300W	180W x 2 360W
		18V	30V	30V	30V	60V	30V x 2	30V x 2	60V x 2
		10A	10A	3A	5A	3A	3A x 2	5A x 2	3A x 2
Configuration Feature									
Rack mounting Able to be mounted in a standard 19-inch rack cabinet.		●	●	●	●	●	●	●	●
Rear output enable		●	●	●	●	●	●	●	●
Parallel and series operation		●	●	●	●	●	●	●	●
Performance Characteristics									
Programming / Readback resolution		1mV / 1mA	1mV / 1mA	1mV / 1mA	1mV / 1mA	10mV / 1mA	1mV / 1mA	1mV / 1mA	10mV / 1mA
Meter resolution		1mV / 1mA	1mV / 1mA	1mV / 1mA	1mV / 1mA	10mV / 1mA	1mV / 1mA	1mV / 1mA	10mV / 1mA
Output ripple and noise (Peak to Peak, 20Hz to 20 MHz)		4mVp-p	5mVp-p	3mVp-p	3mVp-p	4mVp-p	P1: 3mVp-p P2: 8mVp-p	P1: 3mVp-p P2: 8mVp-p	P1: 4mVp-p P2: 8mVp-p
Output response time Rising and falling time with full load, (0 to 90%, 90 to 0%) u: up, d: down		10ms(u) 13ms(d)	12ms(u) 15ms(d)	12ms(u) 15ms(d)	12ms(u) 15ms(d)	16ms(u) 20ms(d)	12ms(u) 15ms(d)	12ms(u) 15ms(d)	16ms(u) 20ms(d)
GPIB Programming Features									
GPIB programming of voltage and current Program the immediate voltage or current value of the power supply.		●	●	●	●	●	●	●	●
Measured voltage and current read-back over the GPIB Querying the voltage measured at the sense terminals of the power supply or the current measured across the current sense resistor inside the power supply.		●	●	●	●	●	●	●	●
Store and recall states Storing up to 10 operating states in non-volatile memory for immediate recall.		●	●	●	●	●	●	●	●
Standard Command for Programmable Instruments(SCPI) SCPI is the standard protocol for test and measurement equipment.		●	●	●	●	●	●	●	●
Protection Features									
Overvoltage protection Enabled to quickly shut down the output.		●	●	●	●	●	●	●	●
Overcurrent protection Enabled to quickly shut down the output.		●	●	●	●	●	●	●	●
Keylock Lock-in / Lock-out the front key operation.		●	●	●	●	●	●	●	●
Maintenance Features									
Electronic calibration		●	●	●	●	●	●	●	●
Calibration security security code(password) to prevent accident or unauthorized calibrations.		●	●	●	●	●	●	●	●
Function Features									
Pattern output operation Automatic output voltage changing after delay time. User can be set the voltage, delay time and step(1 to 10) in menu.		●	●	●	●	●	●	●	●
Set-display Setting the preferable display either "entered value" or "measured value".		●	●	●	●	●	●	●	●
Cal-recover Recover factory default calibration, which is useful when the user made a mistake in calibration.		●	●	●	●	●	●	●	●



### ❖ Features

- Bench-top and 19-inch standard rack mountable
- Self-compensation by monitoring output and display
- CV/CC mode automatic crossover by setup limit
- RS-232, GPIB(IEEE-488.2) Interface
- Storable up to 10 settings at each output port
- Pattern output operation
- Power fail feature to recall the latest setting value
- DUT protection by OVP & OCP
- Rear output enable

## Model K - Single output Programmable DC Power Supply

The K Single's prominent feature is the programming capability with linear power supply mechanism known as ideal for precision power system applications. The power supply is programmable either locally from the front-panel or remotely over the GPIB and RS-232 interfaces.



212 mm W x 132 mm H x 346 mm D (Without Bumper)  
234 mm W x 147 mm H x 391 mm D (With Bumper)

Single output Specifications	K1810	K3010	K3003	K3005	K6003
	180W	300W	90W	150W	180W
<b>DC Output</b>					
Voltage	18V	30V	30V	30V	60V
Current	10A	10A	3A	5A	3A
<b>Programming Accuracy</b> ±(% of output + offset)					
Voltage	0.05%+15mV	0.05%+15mV	0.03%+15mV	0.03%+15mV	0.05%+20mV
Current	0.1%+10mA	0.1%+10mA	0.1%+5mA	0.1%+5mA	0.1%+5mA
<b>Readback Accuracy</b> ±(% of output + offset)					
Voltage	0.05%+12mV	0.05%+12mV	0.03%+10mV	0.03%+10mV	0.05%+15mV
Current	0.1%+7mA	0.1%+7mA	0.1%+3mA	0.1%+3mA	0.1%+3mA
<b>Load Regulation</b> ±(% of output + offset)					
Voltage	0.01%+2mV	0.01%+3mV	0.01%+2mV	0.01%+2mV	0.01%+2mV
Current	0.01%+1mA	0.01%+1mA	0.01%+1mA	0.01%+1mA	0.02%+1mA
<b>Line Regulation</b> ±(% of output + offset)					
Voltage	0.01%+2mV	0.01%+3mV	0.01%+2mV	0.01%+2mV	0.01%+2mV
Current	0.01%+1mA	0.01%+1mA	0.01%+1mA	0.01%+1mA	0.01%+1mA
<b>Ripple &amp; Noise</b> (20Hz to 20MHz)					
Normal Mode Voltage	0.5mVrms, 4mVpp	0.5mVrms, 5mVpp	0.5mVrms, 3mVpp	0.5mVrms, 3mVpp	0.5mVrms, 4mVpp
Normal Mode Current	2mA <sub>rms</sub>	2mA <sub>rms</sub>	1mA <sub>rms</sub>	1mA <sub>rms</sub>	1mA <sub>rms</sub>
<b>Resolution</b>					
Program	1mV / 1mA	1mV / 1mA	1mV / 1mA	1mV / 1mA	10mV / 1mA
Readback	1mV / 1mA	1mV / 1mA	1mV / 1mA	1mV / 1mA	10mV / 1mA
Meter	1mV / 1mA	1mV / 1mA	1mV / 1mA	1mV / 1mA	10mV / 1mA
<b>Voltage Programming Speed</b>					
Up - Full Load	10msec	12msec	12msec	12msec	16msec
No Load	10msec	12msec	12msec	12msec	16msec
Down - Full Load	13msec	15msec	15msec	15msec	20msec
No Load	100msec	110msec	110msec	110msec	250msec
<b>Transient Response</b>					
Less than 50μs for output recover to within 15mV following a change in current output from full load to half load					
<b>Command Processing Time</b>					
50msec < 100msec					



212 mm W x 132 mm H x 346 mm D (Without Bumper)  
234 mm W x 147 mm H x 391 mm D (With Bumper)

## Model K - Dual output Programmable DC Power Supply

The K Dual's prominent feature is the programming capability with linear power supply mechanism known as ideal for precision power system applications. The power supply is programmable either locally from the front-panel or remotely over the GPIB and RS-232 interfaces.



Dual output	K3003D	K3005D	K6003D
<b>Specifications</b>	90W x 2 / 180W	150W x 2 / 300W	180W x 2 / 360W
<b>DC Output</b>			
Voltage	30V x 2	30V x 2	60V x 2
Current	3A x 2	5A x 2	3A x 2
<b>Programming Accuracy</b> ±(% of output + offset)			
Voltage	P1 : 0.03%+15mV P2 : 0.10%+25mV	P1 : 0.03%+15mV P2 : 0.10%+25mV	P1 : 0.05%+20mV P2 : 0.10%+25mV
Current	P1 : 0.1%+5mA P2 : 0.1%+10mA	P1 : 0.1%+5mA P2 : 0.1%+10mA	P1 : 0.1%+5mA P2 : 0.1%+10mA
<b>Readback Accuracy</b> ±(% of output + offset)			
Voltage	P1 : 0.03%+10mV P2 : 0.10%+20mV	P1 : 0.03%+10mV P2 : 0.10%+20mV	P1 : 0.05%+15mV P2 : 0.10%+20mV
Current	P1 : 0.1%+3mA P2 : 0.1%+7mA	P1 : 0.1%+3mA P2 : 0.1%+7mA	P1 : 0.1%+3mA P2 : 0.1%+7mA
<b>Load Regulation</b> ±(% of output + offset)			
Voltage	0.01%+2mV	0.01%+2mV	0.01%+2mV
Current	0.01%+1mA	0.01%+1mA	0.01%+1mA
<b>Line Regulation</b> ±(% of output + offset)			
Voltage	0.01%+2mV	0.01%+2mV	0.01%+2mV
Current	0.01%+1mA	0.01%+1mA	0.01%+1mA
<b>Ripple &amp; Noise</b> (20Hz to 20MHz)			
Normal Mode Voltage	P1 : 0.5mVrms, 3mVpp P2 : 0.5mVrms, 8mVpp	P1 : 0.5mVrms, 3mVpp P2 : 0.5mVrms, 8mVpp	P1 : 0.5mVrms, 4mVpp P2 : 0.5mVrms, 8mVpp
Normal Mode Current	1mA <sub>rms</sub>	1mA <sub>rms</sub>	1mA <sub>rms</sub>
<b>Resolution</b>			
Program	1mV / 1mA	1mV / 1mA	10mV / 1mA
Readback	1mV / 1mA	1mV / 1mA	10mV / 1mA
Meter	1mV / 1mA	1mV / 1mA	10mV / 1mA
<b>Voltage Programming Speed</b>			
Up - Full Load	12msec	12msec	16msec
No Load	12msec	12msec	16msec
Down - Full Load	15msec	15msec	20msec
No Load	110msec	110msec	250msec
<b>Transient Response</b>	Less than 50μs for output recover to within 15mV following a change in current output from full load to half load		
<b>Command Processing Time</b>	50msec < 100msec		

### Features

- Bench-top and 19-inch standard rack mountable
- Self-compensation by monitoring output and display
- CV/CC mode automatic crossover by setup limit
- RS-232, GPIB(IEEE-488.2) Interface
- Storable up to 10 settings at each output port
- Pattern output operation
- Power fail feature to recall the latest setting value
- DUT protection by OVP & OCP
- Rear output enable
- Track function which interlocks P2



## » Key Features

- High Stability Linear Power
- Full Range mV/mA Resolution
- All-in-One Function
- 18+ Modes up to 360W

## » Application

- Product Test
- ATE
- R & D
- Labs



# Precision DC Power Supply Feature Description Index

Range

Max Power

Max Voltage

Max Current

## Model AK

### Single output

### Dual output

AK3010

AK3003

AK3005

AK6003

AK3003D

AK3005D

AK6003D

300W

90W

150W

180W

90W x 2  
180W

150W x 2  
300W

180W x 2  
360W

30V

30V

30V

60V

30V x 2

30V x 2

60V x 2

10A

3A

5A

3A

3A x 2

5A x 2

3A x 2

## Configuration Feature

### Rack mounting

Able to be mounted in a standard 19-inch rack cabinet.

### Rear output enable

Parallel and series operation

## Performance Characteristics

### Programming / Readback resolution

### Meter resolution

### Output ripple and noise

(Peak to Peak, 20Hz to 20 MHz)

### Output response time

Rising and falling time with full load.

(0 to 90%, 90 to 0%)

u : up, d : down

1mV / 1mA

1mV / 1mA

1mV / 1mA

10mV / 1mA

1mV / 1mA

1mV / 1mA

10mV / 1mA

1mV / 1mA

1mV / 1mA

1mV / 1mA

10mV / 1mA

1mV / 1mA

1mV / 1mA

10mV / 1mA

5mVp-p

3mVp-p

3mVp-p

4mVp-p

P1 : 3mVp-p  
P2 : 8mVp-p

P1 : 3mVp-p  
P2 : 8mVp-p

P1 : 4mVp-p  
P2 : 8mVp-p

12ms(u)  
15ms(d)

12ms(u)  
15ms(d)

12ms(u)  
15ms(d)

16ms(u)  
20ms(d)

12ms(u)  
15ms(d)

12ms(u)  
15ms(d)

16ms(u)  
20ms(d)

## Protection Features

### Overvoltage protection

Enabled to quickly shut down the output.

### Overcurrent protection

Enabled to quickly shut down the output.

### Keylock

Lock-in / Lock-out the front key operation.

## Maintenance Features

### Electronic calibration

### Calibration security

security code(password) to prevent accident or unauthorized calibrations.

## Function Features

### Set-display

Setting the preferable display either "entered value" or "measured value".

### Cal-recover

Recover factory default calibration, which is useful when the user made a mistake in calibration.

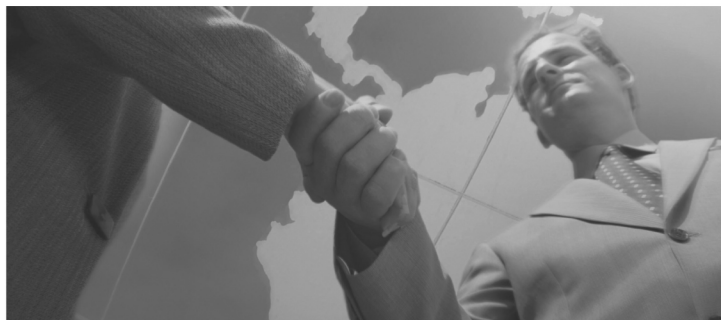
## Free Quotes!

How to contact Vupower

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Web site : [www.vupower.com](http://www.vupower.com)

E-mail : [sales@vupower.com](mailto:sales@vupower.com)




### ❖ Features

- Bench-top and 19-inch standard rack mountable
- Self-compensation by monitoring output and display
- CV/CC mode automatic crossover by setup limit
- Storable up to 10 settings at each output port
- Power fail feature to recall the latest setting value
- DUT protection by OVP & OCP
- Rear output enable

## Model AK - Single output Precision DC Power Supply

"The AK Single is designed to apply for general purpose. Its operation is very simple and easy to control with high quality output. It is highly recommended for your power system application to be ideal with compact size and outstanding output quality."



212 mm W x 132 mm H x 346 mm D (Without Bumper)  
234 mm W x 147 mm H x 391 mm D (With Bumper)

Single output	AK3010	AK3003	AK3005	AK6003
<b>Specifications</b>	300W	90W	150W	180W
<b>DC Output</b>				
Voltage	30V	30V	30V	60V
Current	10A	3A	5A	3A
<b>Programming Accuracy</b>				
±(% of output + offset)				
Voltage	0.05%+15mV	0.03%+15mV	0.03%+15mV	0.05%+20mV
Current	0.1%+10mA	0.1%+5mA	0.1%+5mA	0.1%+5mA
<b>Readback Accuracy</b>				
±(% of output + offset)				
Voltage	0.05%+12mV	0.03%+10mV	0.03%+10mV	0.05%+15mV
Current	0.1%+7mA	0.1%+3mA	0.1%+3mA	0.1%+3mA
<b>Load Regulation</b>				
±(% of output + offset)				
Voltage	0.01%+3mV	0.01%+2mV	0.01%+2mV	0.01%+2mV
Current	0.01%+1mA	0.01%+1mA	0.01%+1mA	0.02%+1mA
<b>Line Regulation</b>				
±(% of output + offset)				
Voltage	0.01%+3mV	0.01%+2mV	0.01%+2mV	0.01%+2mV
Current	0.01%+1mA	0.01%+1mA	0.01%+1mA	0.01%+1mA
<b>Ripple &amp; Noise</b>				
(20Hz to 20MHz)				
Normal Mode Voltage	0.5mVrms, 5mVpp	0.5mVrms, 3mVpp	0.5mVrms, 3mVpp	0.5mVrms, 4mVpp
Normal Mode Current	2mA <sub>rms</sub>	1mA <sub>rms</sub>	1mA <sub>rms</sub>	1mA <sub>rms</sub>
<b>Resolution</b>				
Program	1mV / 1mA	1mV / 1mA	1mV / 1mA	10mV / 1mA
Meter	1mV / 1mA	1mV / 1mA	1mV / 1mA	10mV / 1mA
<b>Voltage Programming Speed</b>				
Up - Full Load	12msec	12msec	12msec	16msec
No Load	12msec	12msec	12msec	16msec
Down - Full Load	15msec	15msec	15msec	20msec
No Load	110msec	110msec	110msec	250msec
<b>Transient Response</b>				
Less than 50μs for output recover to within 15mV following a change in current output from full load to half load				





212 mm W x 132 mm H x 346 mm D (Without Bumper)  
234 mm W x 147 mm H x 391 mm D (With Bumper)

## Model AK - Dual output Programmable DC Power Supply

The AK Single is designed to apply for general purpose. Its operation is very simple and easy to control with high quality output. It is highly recommended for your power system application to be ideal with compact size and outstanding output quality.



Dual output	AK3003D	AK3005D	AK6003D
<b>Specifications</b>	90W x 2 / 180W	150W x 2 / 300W	180W x 2 / 360W
<b>DC Output</b>			
Voltage	30V x 2	30V x 2	60V x 2
Current	3A x 2	5A x 2	3A x 2
<b>Programming Accuracy</b> ±(% of output + offset)			
Voltage	P1 : 0.03%+15mV P2 : 0.10%+25mV	P1 : 0.03%+15mV P2 : 0.10%+25mV	P1 : 0.05%+20mV P2 : 0.10%+25mV
Current	P1 : 0.1%+5mA P2 : 0.1%+10mA	P1 : 0.1%+5mA P2 : 1%+10mA	P1 : 0.1%+5mA P2 : 0.1%+10mA
<b>Readback Accuracy</b> ±(% of output + offset)			
Voltage	P1 : 0.03%+10mV P2 : 0.10%+20mV	P1 : 0.03%+10mV P2 : 0.10%+20mV	P1 : 0.05%+15mV P2 : 0.10%+20mV
Current	P1 : 0.1%+3mA P2 : 0.1%+7mA	P1 : 0.1%+3mA P2 : 0.1%+7mA	P1 : 0.1%+3mA P2 : 0.1%+7mA
<b>Load Regulation</b> ±(% of output + offset)			
Voltage	0.01%+2mV	0.01%+2mV	0.01%+2mV
Current	0.01%+1mA	0.01%+1mA	0.01%+1mA
<b>Line Regulation</b> ±(% of output + offset)			
Voltage	0.01%+2mV	0.01%+2mV	0.01%+2mV
Current	0.01%+1mA	0.01%+1mA	0.01%+1mA
<b>Ripple &amp; Noise</b> (20Hz to 20MHz)			
Normal Mode Voltage	P1 : 0.5mVrms, 3mVpp P2 : 0.5mVrms, 8mVpp	P1 : 0.5mVrms, 3mVpp P2 : 0.5mVrms, 8mVpp	P1 : 0.5mVrms, 4mVpp P2 : 0.5mVrms, 8mVpp
Normal Mode Current	1mA <sub>rms</sub>	1mA <sub>rms</sub>	1mA <sub>rms</sub>
<b>Resolution</b>			
Program	1mV / 1mA	1mV / 1mA	10mV / 1mA
Meter	1mV / 1mA	1mV / 1mA	10mV / 1mA
<b>Voltage Programming Speed</b>			
Up – Full Load	12msec	12msec	16msec
No Load	12msec	12msec	16msec
Down – Full Load	15msec	15msec	20msec
No Load	110msec	110msec	250msec
<b>Transient Response</b>	Less than 50μs for output recover to within 15mV following a change in current output from full load to half load		

### Features

- Bench-top and 19-inch standard rack mountable
- Self-compensation by monitoring output and display
- CV/CC mode automatic crossover by setup limit
- Storable up to 10 settings at each output port
- Power fail feature to recall the latest setting value
- DUT protection by OVP & OCP
- Rear output enable
- Track function which interlocks P2



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