



Programming Manual

UDP1000 Series DC Power Supplies

Instruction List

1. *IDN?
2. *SAV
3. *RCL
4. MEASure:CURRent?
5. MEASure:VOLTage?
6. MEASure:POWEr?
7. [SOURce:]CURRent <current>
8. [SOURce:]CURRent ?
9. [SOURce:]VOLTage <volt>
10. [SOURce:] VOLTage?
11. OUTPut
12. OUTPut:TRACk
13. SYSTem:ERRor?
14. SYSTem:VERSion?
15. SYSTem: STATus?
- 16.OVP:STATus
- 17.OCP:STATus
- 18.OVP:SETting
- 19.OCP:SETting
- 20.OVP:VALUE?
- 21.OCP:VALUE?

1. *IDN?

Syntax

*IDN? <name>

Functional Description

Query the instrument information of manufacturer name, product model, product serial number and software version.

Return Format

The query returns <manufacturer>, < product model>, <serial number>, < software version>.

2. *SAV

Syntax

*SAV <name>

Functional Description

Save the current setting with the specified name into nonvolatile memory.

Example

*SAV 1

Save the current setting with the specified name “1” into nonvolatile memory.

3. *RCL**Syntax**

*RCL <name>

Functional Description

Recall the saved instrument status.

Example

*RCL 1

Recall the system “status 1” from nonvolatile memory.

4. MEASure**Syntax**

MEASure:CURRent?

Functional Description

Query the measuring current value on the output terminal of the specified channel.

Example

MEASure:CURRent? The query returns 3.000.

Syntax

MEASure:VOLTage?

Functional Description

Query the measuring voltage value on the output terminal of the specified channel.

Example

MEASure:VOLTage? The query returns 30.000.

Syntax

MEASure:POWER?

Functional Description

Query the measuring power value on the output terminal of the specified

channel.

Example

MEASure:POWER? The query returns 90.000.

5. SOURce

Syntax

CURRent <current value>

Functional Description

Set the current value for the channel.

Example

CURRent 0.5

Syntax

CURRent?

Functional Description

Query the current value of channel.

Example

CURRent? The query returns 0.5.

Syntax

VOLTaget < voltage value >

Functional Description

Set the voltage value for the channel.

Example

VOLTaget 25

Syntax

VOLTaget?

Functional Description

Query the voltage value of channel.'

Example

VOLTaget? The query returns 25.

6. OUTPut

Syntax

OUTPut, <status>

<Status>: = {ON | OFF}

Functional Description

Turn on/off the channel.

Example

OUTPut ON

7. OVP:STATus

Syntax

OVP:STATus, <status>

<Status> := { ON | OFF }

Functional Description

Turn on/off overvoltage protection.

Example

OVP:STATus ON

8. OCP:STATus

Syntax

OCP:STATus < status >

< Status >: = {ON | OFF}

Functional Description

Turn on/off overcurrent protection.

Example

OCP:STATus ON

9. OVP:SETting

Syntax

OVP:SETting <voltage value>

Functional Description

Set the voltage value of overvoltage protection.

Example

OVP:SETting 32

10. OCP:SETting

Syntax

OCP:SETting < current value >

Functional Description

Set the current value of overcurrent protection.

Example

OCP:SETting 3

11. OVP:VALUE?

Syntax

OVP:VALUE?

Functional Description

Read the voltage value of overvoltage protection.

Example

OVP:VALUE?

12. OCP:VALUE?

Syntax

OCP:VALUE?

Functional Description

Read the current value of overcurrent protection.

Example

OCP:VALUE?

13. SYSTem

Syntax

SYSTem:ERRor?

Functional Description

Read the error code and information of power supply.

Syntax

SYSTem:VERSion?

Functional Description

Query the software version.

Syntax

SYSTem:STATus?

Functional Description

Return the working status of the instrument.

Example

SYSTem:STATus? The query returns 0x0024.

Description

The return information is hexadecimal notation. When the user confirms the status, it needs to convert to binary format. The conversion relation is as follows.

Bit Number	Status
0	0: CV mode; 1: CC mode
1	0: Output off; 1: enable
2	0: OVP off ; 1: enable OVP
3	0: OCP off ; 1: enable OCP
4	Storage 1 status, 0: off; 1: enable
5	Storage 2 status, 0: off; 1: enable
6	Storage 3 status, 0: off; 1: enable
7	Storage 4 status, 0: off; 1: enable
8	Storage 5 status, 0: off; 1: enable