UNI-T®

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Programming Manual

UDP1000 Series DC Power Supplies

Instruction List

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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

VOLTage 25

Syntax

VOLTage?

Functional Description

Query the voltage value of channel.'

Example

VOLTage? 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