



## Option 2UA Microamp Measurement Option For the Agilent N6760 Precision DC Power Modules



Models: N6761A Option 2UA  
N6762A Option 2UA

### Data Sheet

#### Key Features of Option 2UA

- **Directly replaces Option 1UA**
- **Adds 200  $\mu$ A full-scale current measurement range**
- **Suitable for measurements down to 1  $\mu$ A**
- **Includes output disconnect relays (same as Option 761)**
- **Supported in all N6700 Low-Profile Modular Power System mainframes**
- **Supported in the N6705A DC Power Analyzer mainframe**
- **Stable with capacitive loads**
- **Up to 3 A continuous output current on N6762A (or up to 1.5 A on N6761A)**
- **User configurable measurement integration time to allow tradeoff between measurement speed and noise rejection**

#### Application

- Leakage current measurement of handset power amplifiers and other semiconductor devices
- Sleep mode current measurement of battery powered devices

#### Specifications

- Ammeter Measurement Accuracy (at 23°C  $\pm$ 5°C) in 200  $\mu$ A range: 0.5% of reading + 100 nA
- Measurement Temperature Coefficient per °C in 200  $\mu$ A range: 200 ppm + 2 nA/°C
- When Option 2UA is installed, all DC source specifications and all other measurement specifications of the two higher ranges remain unchanged
- For complete DC source specifications and all other measurement specifications, see 5989-1411EN (for use in N6700 Low-Profile Modular Power System mainframes) or 5989-6319EN (for use in the N6705A DC Power Analyzer)

#### Description

For Agilent models N6761A and N6762A, Option 2UA adds a third measurement range capable of measuring 2  $\mu$ A accurately. When using this 200  $\mu$ A full-scale current measurement range, all Agilent N6761A and N6762A measurement features will work just as they do on the 100 mA full-scale current measurement range and the 1.5 A (N6761A) or 3 A (N6762A) full-scale current measurement range. These measurement features include the digitizer in the N6700 Low-Profile mainframe and the scope and data logger of the N6705A DC Power Analyzer. In addition to the 200  $\mu$ A measurement range, Option 2UA adds mechanical relays that disconnect both the plus and minus side of the power supply, including the sense leads.

Option 2UA is a direct replacement of Option 1UA. It increases the measurement range from 100  $\mu$ A to 200  $\mu$ A with the same specifications and for the same price.



## Upgrades and compatibility

N6761A with Option 2UA and N6762A with Option 2UA are supported in the following mainframes:

### N6705A DC Power Analyzer mainframe

- Requires firmware version A.02.09 or higher
- Firmware is available as a free download from [www.agilent.com/find/N6705firmware](http://www.agilent.com/find/N6705firmware)

### N6700A, N6700B, N6701A, N6702A Low-Profile MPS mainframes

- Requires firmware version C.02.15 or higher
- Firmware is available as a free download from [www.agilent.com/find/N6700firmware](http://www.agilent.com/find/N6700firmware)

Option 2UA must be ordered at the time of purchase of the N6761A or N6762A module. Previously purchased N6761A or N6762A modules cannot be upgraded to include Option 2UA.

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