

DT547x

Single Channel USB High Voltage Power Supply Family



CAEN High Voltage power supplies now available in a compact, easy and handy device

Features

- Single Desktop HV channel powered and controlled by USB
- Channel Enable/Disable via front panel switch
- Available with positive or negative polarity
- SHV coaxial output connector
- From 500 V to 5 kV, 1 W maximum power
- 1mm Zoom (x10)
- Remote control through USB 2.0
- LabVIEW Instrument Driver
- Dedicated LabVIEW Software

The DT547x is a new CAEN Power Supply Family providing a Single High Voltage channel in a small size Desktop form factor. The unit is powered and controlled by any Laptop/PC USB 2.0 port and this makes it a really portable and practical solution for testing and educational needs.

A dedicated LabVIEW based Control Software allows for an easy set and monitor of the High Voltage parameters. The High Voltage output is delivered through SHV connector.

Three versions are available spanning from 500 V to 5 kV and from 200 μ A to 1 mA, meeting the needs of a wide range of applications.

Each unit is provided with Imon Zoom. This feature enhances the Current monitoring, increasing the resolution of a x10 factor according to the specific model.

The HV output Ramp-Up and Ramp-Down rates can be set independently in the range 1 ÷ 500 V/s in 1 V/s steps (1 ÷ 100 V/s for DT5472)

Safety features include:

- **Channel can be enabled or disabled** through the front panel manual switch or via Interlock logic.
- **Overvoltage and Undervoltage warning** when the output voltage differs from the programmed value.
- **Overcurrent detection:** when the channel attempts to exceed the programmed current limit, it signaled to be in “overcurrent” and enter in a TRIP status. The output voltage is varied to keep the current below the programmed limit for a programmable TRIP time, then the channel is switched off. If TRIP is set to “constant current mode”, the channel behaves like a current generator.
- **Hardware VMAX:** maximum output voltage can be set via front panel potentiometer. VMAX value can be read out via software.

Software

DT547x models features:

- LabVIEW Instrument Driver
- DT547x Control software: LabVIEW Control software with Logging Capability. **DT547x Control software** allows to set and monitor, through a Graphical User Interface, all the unit's functional parameters. When DT547x Control Software runs, it creates a data-log file that records the changes of the monitoring parameters.



All CAEN Control Software are available for **free download** on the web site.




Model Compare

Model	Maximum Voltage	Maximum Current	Iset/Imon Resolution	Max. Output Power
DT5470	5 kV	200 μ A	Iset: 40 nA Imon: 4 / 0.4 nA with Imon Zoom	1 W
DT5471	3 kV	500 μ A	Iset: 100 nA Imon: 10 / 1 nA with Imon Zoom	1 W
DT5472	500 V	1 mA	Iset: 200 nA Imon: 20 / 2 nA with Imon Zoom	500 mW

Ordering Option

Code	Description
WDT5470XNAAA	DT5470N - 1 Channel -5 kV/200 μ A USB HV Power Supply Unit
WDT5470XPAAA	DT5470P - 1 Channel +5 kV/200 μ A USB HV Power Supply Unit
WDT5471XNAAA	DT5471N - 1 Channel -3kV/500 μ A (1W max) USB HV Power Supply Unit
WDT5471XPAAA	DT5471P - 1 Channel +3kV/500 μ A (1W max) USB HV Power Supply Unit
WDT5472XNAAA	DT5472N - 1 Channel -500 V/1 mA USB HV Power Supply Unit
WDT5472XPAAA	DT5472P - 1 Channel +500 V/1 mA USB HV Power Supply Unit



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