

DT55xxE

**4 Channel Desktop HV Power Supply Family
with Ethernet & USB**



The all new Desktop Power Supply Family from CAEN. Quality and Usability redesigned for your Laboratory.

Features

- 4 independent HV channels in a compact desktop module
- up to 6 kV / 3 mA (4 W max) output ranges
- Available with positive, negative or mixed polarity
- SHV coaxial output connectors
- Very Low Ripple
- Under/overvoltage alert, overcurrent and max. voltage protection
- Status output Channel ON/Status LEDs
- Remote control via USB2.0 and Ethernet
- Interlock logic for unit enable and individual channel kill

Safety features include:

- Overvoltage and Undervoltage warning when the output voltage differs from the programmed value
- Programmable hardware VMAX protection limit
- Overcurrent detection: if a channel tries to draw a current larger than its programmed limit, it is signaled to be in “overcurrent” and is switched off. The high voltage will drop to zero at a rate determined by the value of “Ramp-Down” for that channel.
- Common Interlock logic for channels enable/disable and individual input signal for channel Kill function.

Overview

The DT55xxE is a new CAEN Power Supply Family providing 4 independent High Voltage channels in a compact Desktop form factor. The units are available with either positive, negative or mixed polarity.

High Voltage outputs are delivered through SHV connectors. DT55xxe units can be controlled, via USB or Ethernet, taking advantage of the new GECO2020 Control Software.

EPICS and LabVIEW are also supported.

Different versions are available spanning from 500 V to 6 kV and from 20 μ A to 3 mA (4 W maximum), meeting the needs of a wide range of applications.

A Zoom option is available for Imon. This feature enhances the current monitoring, increasing the resolution of a x10 factor (up to 10 pA).

The HV output Ramp-Up and Ramp-Down rates can be set independently for each channel in the range $1 \div 500$ V/s in 1 V/s steps ($1 \div 100$ V/s for DT5519E).

Local and Remote Control



DT55xxE rear view



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

Control Software available: GECO2020 with user friendly GUI and CAEN HV Wrapper library for custom SW development. EPICS and LabVIEW also supported



Model Compare

Model	Maximum Voltage	Maximum Current	I mon Resolution	Max Output Power
DT5519E	500 V	3 mA	10 nA (1 nA with Imon Zoom)	1.5 W
DT5533E	4 kV	3 mA	10 nA (1 nA with Imon Zoom)	4 W
DT5534E	6 kV	1 mA	5 nA (500 pA with Imon Zoom)	4 W
DT5521E	6 kV	300 μ A	1 nA (100 pA with Imon Zoom)	1.8 W
DT5521HE	6 kV	20 μ A	100 pA (10 pA with Imon Zoom)	120 mW

Ordering Option

Code	Description
WDT5519EXNAA	DT5519EN - 4 Channel 500 V/3 mA Desktop HV Power Supply (USB/Ethernet) - Negative
WDT5519EXPAA	DT5519EP - 4 Channel 500 V/3 mA Desktop HV Power Supply (USB/Ethernet) - Positive
WDT5519EXMAA	DT5519EM - 4 Channel 500 V/3 mA Desktop HV Power Supply (USB/Ethernet) - Mixed
WDT5533EXNAA	DT5533EN - 4 Channel 4 kV/3 mA (4 W) Desktop HV Power Supply (USB/Ethernet) - Negative
WDT5533EXPAA	DT5533EP - 4 Channel 4 kV/3 mA (4 W) Desktop HV Power Supply (USB/Ethernet) - Positive
WDT5533EXMAA	DT5533EM - 4 Channel 4 kV/3 mA (4 W) Desktop HV Power Supply (USB/Ethernet) - Mixed
WDT5521HENAA	DT5521HE - 4 Channel 6 kV/20 μ A Desktop HV Power Supply (USB/Ethernet) - Negative
WDT5521HEPAA	DT5521HE - 4 Channel 6 kV/20 μ A Desktop HV Power Supply (USB/Ethernet) - Positive
WDT5521HEMAA	DT5521HE - 4 Channel 6 kV/20 μ A Desktop HV Power Supply (USB/Ethernet) - Mixed
WDT5521EXNAA	DT5521EN - 4 Channel 6 kV/300 μ A Desktop HV Power Supply (USB/Ethernet) - Negative
WDT5521EXPAA	DT5521EP - 4 Channel 6 kV/300 μ A Desktop HV Power Supply (USB/Ethernet) - Positive
WDT5521EXMAA	DT5521EM - 4 Channel 6 kV/300 μ A Desktop HV Power Supply (USB/Ethernet) - Mixed
WDT5534EXNAA	DT5534EN - 4 Channel 6 kV/1 mA (4 W) Desktop HV Power Supply (USB/Ethernet) - Negative
WDT5534EXPAA	DT5534EP - 4 Channel 6 kV/1 mA (4 W) Desktop HV Power Supply (USB/Ethernet) - Positive
WDT5534EXMAA	DT5534EM - 4 Channel 6 kV/1 mA (4 W) Desktop HV Power Supply (USB/Ethernet) - Mixed
WPERS0550001	DT55XX - Customization - Imon Zoom

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