

R14xxET

4/8 Reversible Channel 19" Rack-mount HV Power Supply Family with Ethernet & Touchscreen



CAEN HV Power Supplies now fit your rack in a flexible and reliable unit

Features

- 4 / 8 independent HV channels in a 2U, 19" Rack-mount unit
- Channel polarity independently selectable
- SHV coaxial output connectors
- Common floating return
- Very Low Ripple
- Under/overvoltage alert, overcurrent and max. voltage protection
- 2.8" color touch screen display
- Local and Remote control (USB2.0/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: when a channel attempts to exceed the programmed current limit, it is 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 "INFINITE", the channel behaves like a current generator.
- Common Interlock logic for channels enable/disable and individual input signal for channel Kill function.

Overview

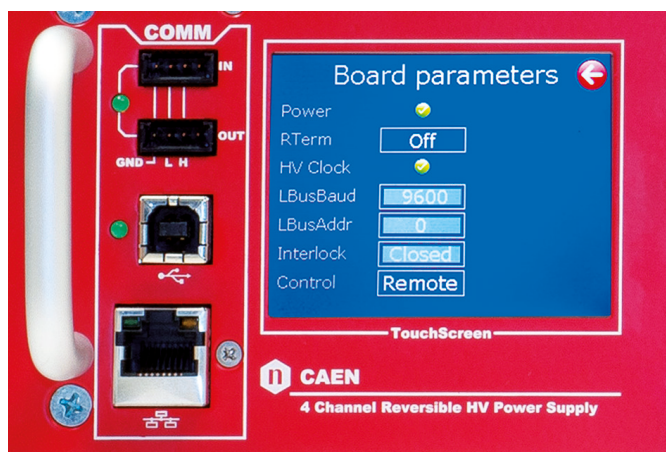
The R14xxET is a new CAEN Power Supply Family providing 4 or 8 independent High Voltage channels in a 2U, 19" Rack-mount unit. Each channel features an independently selectable polarity and common floating return (common return insulated from the chassis ground). High Voltage outputs are delivered through SHV connectors. R14xxET units can be controlled either locally, thanks to a 2.8" touchscreen color LCD display with a complete user interface, or remotely, via USB or Ethernet, taking advantage of the new GECO2020 Control Software. EPICS and LabVIEW are supported.

Different versions are available spanning from 500 V to 8 kV and from 20 μ A to 3 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 or x20 factor according to the specific model.

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 50 V/s for R1419ET / R1419ETD).

Local and Remote Control



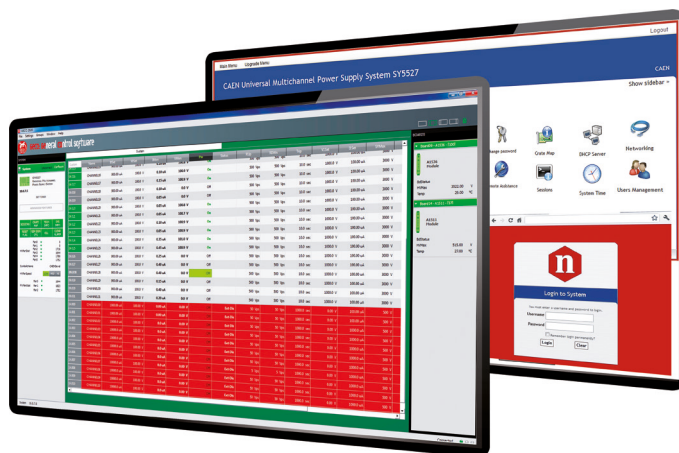
Ethernet and USB connections for remote control

2.8" touchscreen color LCD display for local control



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



GECO2020 Control Software



Rear View

Model Compare

Model	Maximum Voltage	Maximum Current	Iset/Imon Resolution	N. of Channels
R1419ET	500 V	200 μ A	5 nA (0.5 nA with Imon Zoom)	4
R1419ETD	500 V	200 μ A	5 nA (0.5 nA with Imon Zoom)	8
R1471ET	5.5 kV	300 μ A	5 nA (0.5 nA with Imon Zoom)	4
R1471ETD	5.5 kV	300 μ A	5 nA (0.5 nA with Imon Zoom)	8
R1471HET	5.5 kV	20 μ A	1 nA (50 pA with Imon Zoom)	4
R1471HETD	5.5 kV	20 μ A	1 nA (50 pA with Imon Zoom)	8
R1470ET	8 kV	3 mA (9 W max)	50 nA (5 nA with Imon Zoom)	4
R1470ETD	8 kV	3 mA (9 W max)	50 nA (5 nA with Imon Zoom)	8

Ordering Option

Code	Description
WR1419ETXAAA	R1419ET - 4 Channel 500V/200uA 19" HV Power Supply Unit with Ethernet & Touchscreen
WR1419ETDXAA	R1419ETD - 8 Channel 500V/200uA 19" HV Power Supply Unit with Ethernet & Touchscreen
WR1471ETXAAA	R1471ET - 4 Channel 5.5kV/300uA 19" HV Power Supply Unit with Ethernet & Touchscreen
WR1471ETDXAA	R1471ETD - 8 Channel 5.5kV/200uA 19" HV Power Supply Unit with Ethernet & Touchscreen
WR1471HETXAA	R1471HET - 4 Channel 5.5kV/20 μ A 19" HV Power Supply High Accuracy Unit with Ethernet & Touchscreen
WR1471HETDXA	R1471HETD - 8 Channel 5.5kV/20 μ A 19" HV Power Supply High Accuracy Unit with Ethernet & Touchscreen
WR1470ETXAAA	R1470ET - 4 Channel 8kV/3mA (9W max) 19" HV Power Supply Unit with Ethernet & Touchscreen
WR1470ETDXAA	R1470ETD - 8 Channel 8kV/3mA (9W max) 19" HV Power Supply Unit with Ethernet & Touchscreen