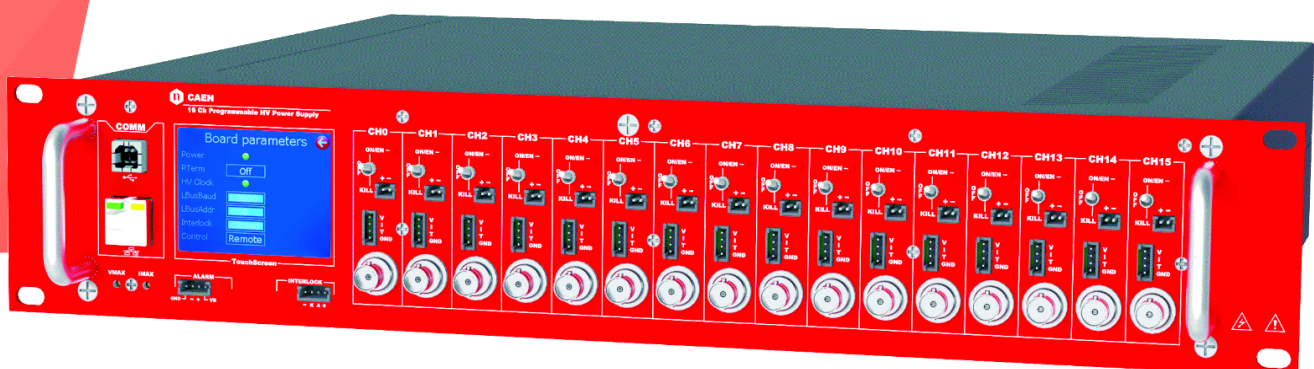


R8031

8-16 Channel 100 V / 10 mA 19" Power Supply Module (USB/Ethernet/Touch screen)



Technical Specifications

Packaging

19" rack (h: 2U; d: 360 mm). 110/220V AC Powered

Output Channels

8-16 channels, BNC connector Positive, Negative or Mixed (4-8 positive and 4-8 negative) Polarity; common ground

Output Voltage

0÷100 V

Max. Output Current

10 mA

Max. Ch. Output Power

1 W

Voltage Resolution

500 μ V

Vmon Resolution

500 μ V

Iset Resolution

50 nA

Imon Resolution

50 nA (high range) / 5 nA (low range)

Vmax

0 ÷ 100 V

Vmax resolution

1V

IMAX hardware

10 mA

IMAX hardware resolution

10 μ A

Ramp Up/Down

- 1÷50 Volt/s, 1 Volt/s step
- Step = 0.1 s

Trip

Max. time an "overcurrent" can last (seconds). A channel in "overcurrent" works as a current generator; output voltage varies in order to keep the output current lower than the programmed value. "Overcurrent" lasting more than set value (1 to 9999) causes the channel to "trip". Output voltage will drop to zero either at the Ramp-down rate or at the fastest available rate, depending on Power Down setting; in both cases the channel is put in the off state. *If trip= INFINITE, "overcurrent" lasts indefinitely. TRIP range: 0 ÷ 999.9s; 1000 s = Infinite.*

Voltage Ripple

- 10 - 1000Hz: < 3mVpp typ; < 5mVpp max
- 1kHz - 20MHz: < 1mVpp typ; < 3mVpp max

Vmon vs. Vout Accuracy

$\pm 0.02\% \pm 20\text{mV}$

Vset vs. Vout Accuracy

$\pm 0.02\% \pm 20\text{mV}$

I_{mon} vs. I_{out} Accuracy

$\pm 0.5\% \pm 50\mu\text{A}$

I_{set} vs. I_{out} Accuracy

$\pm 0.5\% \pm 50\mu\text{A}$

Humidity range

0 ÷ 80% non condensing

Operating Temperature

0 ÷ 45°C

Storage Temperature

-10 ÷ 70°C

Vout / Temperature coefficient

$\pm 10 \text{ ppm}/^\circ\text{C typ}$

Long Term stability (1 week after 1h warmup)

$\pm 0.02\% / \text{full scale}$

Local Control

LCD touchscreen

Remote Control

USB & Ethernet

Ordering Options

Code	Description	
WR8031DXAAAA	R8031DN - 16CH Rack-mount Programmable HV Power Supply (-100V 10mA) - BNC conn. - Common Gnd	RoHS
WR8031DXMAAA	R8031DM - 16CH Rack-mount Programmable HV P.S. (8ch-100V 10mA,8ch +100V 10mA) - BNC conn. - C. Gnd	RoHS
WR8031DXPAAA	R8031DP - 16CH Rack-mount Programmable HV Power Supply (+100V 10mA) - BNC conn. - Common Gnd	RoHS
WR8031XAAAAA	R8031N - 8CH Rack-mount Programmable HV Power Supply (-100V 10mA) - BNC conn. - Common Gnd	RoHS
WR8031XMAAAA	R8031M - 8CH Rack-mount Programmable HV P.S.(4ch -100V 10mA,4ch +100V 10mA) - BNC conn. - Common Gnd	RoHS
WR8031XPAAAA	R8031P - 8CH Rack-mount Programmable HV Power Supply (+100V 10mA) - BNC conn. - Common Gnd	RoHS

Accessories

A148x



Inhibit - Kill Signal BNC Adapter for HV Power Supply Modules

A1484

Inhibit - Kill Signal BNC Adapter for HV Power Supply Modules

HV CABLES



High Voltage Cable Assemblies

A1483

Inhibit - Kill Signal BNC Adapter for HV Power Supply Modules

Related Software

GECO2020



General Control Software for CAEN HV Power Supplies

Related Products

R8034H



8-16 Channel 6 kV/20 μ A Rack 19" HV Power Supply (USB/Ethernet/Touchscreen)

R8034



8-16 Channel 6 kV/1 mA Rack 19" HV Power Supply (USB/Ethernet/Touchscreen)

LabVIEW Driver (PSM - Power Supply Modules)



LabVIEW Instrument Driver for Power Supply Modules

R8032



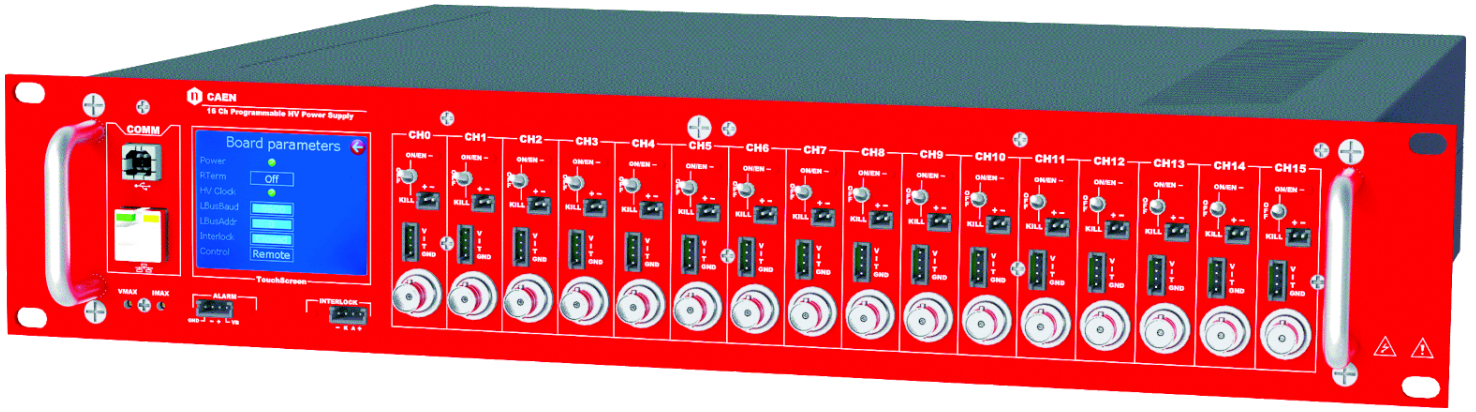
8-16 Channel 500 V/10 mA 19" Power Supply Module (USB/Ethernet/Touchscreen)

R8033



8-16 Channel 4 kV/ 3 mA (6W) 19" Power Supply Module (USB/Ethernet/Touchscreen)

Gallery



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