

SY127**40 Channel High Voltage System**Family: **Power Supply**[OPC](#)[Active HV](#)[HS CAENET](#)

- Password protected access.
- Up to 4000 channels controlled from a single point.
- Under and over-voltage signalling and overcurrent protection for each channel.
- Non-volatile memory of high voltage values and all operational parameters.
- Remote control through: CAMAC Controller mod. C 139; VME Controller mod. A 200; PC - CAENET Controller mod. A303/A303 A/A1303; CAMAC Controller mod. C 117B; VME Controller mod. V 288; G64 Controller mod. A 199HS.G64 Controller mod. A 199 (via H.V. CAENET)
- RS232C port
- Local control via on-board alphanumeric key-pad and display.
- Friendly software user interface.
- Positive and negative polarity
- Highly flexible: designed to power a wide range of detectors

Overview

The SY127 is a High Voltage System featuring modularity and high flexibility. The System has been designed to power a wide range of detectors. Suitable for both major experiments and for the laboratory tests.

It consists of one Std. 19" Euro Crate that houses a Control Unit at the front, and HV plug-in Channels (Model A 300 - A 400 - A 600) at the rear.

The SY 127 features a powerful software with a friendly User interface, together with sophisticated overvoltage and overcurrent protections.



The SY127 can be locally monitored and controlled via on-board alpha-numeric keypad and display. Remote control is possible via RS-232-C port and either H.V. CAENET (for Mod. SY127HV) or HIGH SPEED CAENET (for Mod. SY127HS). Thanks to the new communication controller Mod. A128HS, it is possible to upgrade older systems, previously controlled via H.V. CAENET, to H.S. CAENET (please check with CAEN firmware compatibility of older SY127 systems)

Non-volatile memory of HV values and all operational parameters. Access is password protected.

Technical Specification Table

Size	4 Eurocard units and 19" wide
Shipping weight (full load)	35 Kg + packaging
Power supply	220 V/ 50 Hz - 115 V/ 60 Hz (switch selectable)
Maximum power dissipation	850 W
Humidity range	0 - 90 %
Operating temperature	0 - 45 °C
No. of Mainframes/System	Max. 100, daisy-chained
No. of HV Modules/Mainframe	10 slots per crate; POS and NEG HV modules can be intermixed in the same crate
No. of HV Channels/Mainframe	Max. 40 (4 ch x 10 modules)
Local Control access	A 16-key keyboard and a 14 character alphanumeric LED display
Remote Control access	RS232C, CAMAC, VME, PC, G64
Remote/Local controllable parameters	Voltage (2 ranges), Current (2 ranges), Ramp-up, Ramp-down, Trip-off
Remote/Local monitored parameters	Voltage, Current, channel status
Alarm	On TRIP, OVV, UNV conditions
Restart at Power-on	Automatic restart after power-on or reset
HV enable	Front panel switch for HV Enable/Disable
Reset input	Front panel LEMO input for NIM signal
Manual reset	Front panel switch
KILL input	Front panel LEMO input for NIM signal
Interlock	Simultaneous programmable High or Low switching-off of all channels
Password protection	Password control for parameter setting
DAC	12 bit
ADC	12 bit
EEPROM	Non-volatile memory for all parameters
Output Voltage Temp	Max. 0.005% °C
HV long term stability	± 2V ±1 LSB

Ordering Options

Code	Version	Description	Available	New
WSY127CHASSX	SY127HV	40 Channel High Voltage System (HV CAENET Mainframe)		
WSY127CHASSY	SY127HS	40 Channel High Voltage System (HS CAENET Mainframe)		

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