

Open CAEN program

Box will automatically open prompting IP address and login. Enter in the following parameters:

Power Supply Name: Leave Blank?

Power Supply Type: SY4527/SY5527

Connection Type: TCP/IP

Connection Parameters:

IP: 134.84.150.53

Username: admin

Password: admin

geco: general control software

SYSTEM

System

Custom	Name	ISet	VISet	IMon	VMon	Pur	Status	RUp	RDWn	Trip	VISet	ISet	SVMax
02.000	CHANNEL0	1000.00 uA	1120.0 V	0.00 uA	0.0 V	OFF		100 Vps	100 Vps	10.0 sec	0.0 V	100.00 uA	3000 V
02.001	CHANNEL1	1000.00 uA	1121.0 V	0.00 uA	0.0 V	OFF		100 Vps	100 Vps	10.0 sec	0.0 V	100.00 uA	3000 V
02.002	CHANNEL2	1000.00 uA	1231.0 V	0.00 uA	0.0 V	OFF		100 Vps	100 Vps	10.0 sec	0.0 V	100.00 uA	3000 V
02.003	CHANNEL3	1000.00 uA	1148.0 V	0.00 uA	0.0 V	OFF		100 Vps	100 Vps	10.0 sec	0.0 V	100.00 uA	3000 V
02.004	CHANNEL4	1000.00 uA	1129.0 V	0.00 uA	0.0 V	OFF		100 Vps	100 Vps	10.0 sec	0.0 V	100.00 uA	3000 V
02.005	CHANNEL5	1000.00 uA	1328.0 V	0.00 uA	0.0 V	OFF		100 Vps	100 Vps	10.0 sec	0.0 V	100.00 uA	3000 V
02.006	CHANNEL6	1000.00 uA	1268.0 V	0.00 uA	0.0 V	OFF		100 Vps	100 Vps	10.0 sec	0.0 V	100.00 uA	3000 V
02.007	CHANNEL7	1000.00 uA	1149.0 V	0.00 uA	0.0 V	OFF		100 Vps	100 Vps	10.0 sec	0.0 V	100.00 uA	3000 V
02.008	CHANNEL8	1000.00 uA	1199.0 V	0.00 uA	0.0 V	OFF		100 Vps	100 Vps	10.0 sec	0.0 V	100.00 uA	3000 V
02.009	CHANNEL9	1000.00 uA	1261.0 V	0.00 uA	0.0 V	OFF		100 Vps	100 Vps	10.0 sec	0.0 V	100.00 uA	3000 V
02.010	CHANNEL10	1000.00 uA	1198.0 V	0.00 uA	0.0 V	OFF		100 Vps	100 Vps	10.0 sec	0.0 V	100.00 uA	3000 V
02.011	CHANNEL11	1000.00 uA	1161.0 V	0.00 uA	0.0 V	OFF		100 Vps	100 Vps	10.0 sec	0.0 V	100.00 uA	3000 V
02.012	CHANNEL12	1000.00 uA	1215.0 V	0.00 uA	0.0 V	OFF		100 Vps	100 Vps	10.0 sec	0.0 V	100.00 uA	3000 V
02.013	CHANNEL13	1000.00 uA	1166.0 V	0.00 uA	0.0 V	OFF		100 Vps	100 Vps	10.0 sec	0.0 V	100.00 uA	3000 V
02.014	CHANNEL14	1000.00 uA	1164.0 V	0.00 uA	0.0 V	OFF		100 Vps	100 Vps	10.0 sec	0.0 V	100.00 uA	3000 V
02.015	CHANNEL15	1000.00 uA	1067.0 V	0.00 uA	0.0 V	OFF		100 Vps	100 Vps	10.0 sec	0.0 V	100.00 uA	3000 V
02.016	CHANNEL16	1000.00 uA	1206.0 V	0.00 uA	0.0 V	OFF		100 Vps	100 Vps	10.0 sec	0.0 V	100.00 uA	3000 V
02.017	CHANNEL17	1000.00 uA	1217.0 V	0.00 uA	0.0 V	OFF		100 Vps	100 Vps	10.0 sec	0.0 V	100.00 uA	3000 V
02.018	CHANNEL18	1000.00 uA	1202.0 V	0.00 uA	0.0 V	OFF		100 Vps	100 Vps	10.0 sec	0.0 V	100.00 uA	3000 V
02.019	CHANNEL19	1000.00 uA	1237.0 V	0.00 uA	0.0 V	OFF		100 Vps	100 Vps	10.0 sec	0.0 V	100.00 uA	3000 V
02.020	CHANNEL20	1000.00 uA	1307.0 V	0.00 uA	0.0 V	OFF		100 Vps	100 Vps	10.0 sec	0.0 V	100.00 uA	3000 V
02.021	CHANNEL21	1000.00 uA	1155.0 V	0.00 uA	0.0 V	OFF		100 Vps	100 Vps	10.0 sec	0.0 V	100.00 uA	3000 V
02.022	CHANNEL22	1000.00 uA	1088.0 V	0.00 uA	0.0 V	OFF		100 Vps	100 Vps	10.0 sec	0.0 V	100.00 uA	3000 V
02.023	CHANNEL23	1000.00 uA	1182.0 V	0.00 uA	0.0 V	OFF		100 Vps	100 Vps	10.0 sec	0.0 V	100.00 uA	3000 V
02.024	CHANNEL24	1000.00 uA	1200.0 V	0.00 uA	0.0 V	OFF		100 Vps	100 Vps	10.0 sec	0.0 V	100.00 uA	3000 V
02.025	CHANNEL25	100.00 uA	3.0 V	0.00 uA	0.0 V	OFF		50 Vps	50 Vps	10.0 sec	0.0 V	100.00 uA	3000 V

Board02 - A1536 - [40]

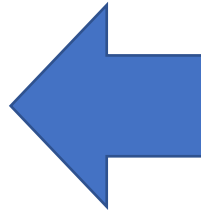
A1536 Module

BdStatus 3590 V

HiMax 25 °C

Temp

Determine if board is connected



Connected: Board will be white

continue to next slide

geco: general control software

SYSTEM

System

Custom	Name	ISet	VISet	IMon	VMon	Pur	Status	RUp	RDWn	Trip	VISet	ISet	SVMax
02.000	CHANNEL0	1000.00 uA	1120.0 V	0.00 uA	0.0 V	OFF	Ext Dis	100 Vps	100 Vps	10.0 sec	0.0 V	100.00 uA	3000 V
02.001	CHANNEL1	1000.00 uA	1121.0 V	0.00 uA	0.0 V	OFF	Ext Dis	100 Vps	100 Vps	10.0 sec	0.0 V	100.00 uA	3000 V
02.002	CHANNEL2	1000.00 uA	1231.0 V	0.00 uA	0.0 V	OFF	Ext Dis	100 Vps	100 Vps	10.0 sec	0.0 V	100.00 uA	3000 V
02.003	CHANNEL3	1000.00 uA	1148.0 V	0.00 uA	0.0 V	OFF	Ext Dis	100 Vps	100 Vps	10.0 sec	0.0 V	100.00 uA	3000 V
02.004	CHANNEL4	1000.00 uA	1129.0 V	0.00 uA	0.0 V	OFF	Ext Dis	100 Vps	100 Vps	10.0 sec	0.0 V	100.00 uA	3000 V
02.005	CHANNEL5	1000.00 uA	1328.0 V	0.00 uA	0.0 V	OFF	Ext Dis	100 Vps	100 Vps	10.0 sec	0.0 V	100.00 uA	3000 V
02.006	CHANNEL6	1000.00 uA	1268.0 V	0.00 uA	0.0 V	OFF	Ext Dis	100 Vps	100 Vps	10.0 sec	0.0 V	100.00 uA	3000 V
02.007	CHANNEL7	1000.00 uA	1149.0 V	0.00 uA	0.0 V	OFF	Ext Dis	100 Vps	100 Vps	10.0 sec	0.0 V	100.00 uA	3000 V
02.008	CHANNEL8	1000.00 uA	1199.0 V	0.00 uA	0.0 V	OFF	Ext Dis	100 Vps	100 Vps	10.0 sec	0.0 V	100.00 uA	3000 V
02.009	CHANNEL9	1000.00 uA	1261.0 V	0.00 uA	0.0 V	OFF	Ext Dis	100 Vps	100 Vps	10.0 sec	0.0 V	100.00 uA	3000 V
02.010	CHANNEL10	1000.00 uA	1198.0 V	0.00 uA	0.0 V	OFF	Ext Dis	100 Vps	100 Vps	10.0 sec	0.0 V	100.00 uA	3000 V
02.011	CHANNEL11	1000.00 uA	1161.0 V	0.00 uA	0.0 V	OFF	Ext Dis	100 Vps	100 Vps	10.0 sec	0.0 V	100.00 uA	3000 V
02.012	CHANNEL12	1000.00 uA	1215.0 V	0.00 uA	0.0 V	OFF	Ext Dis	100 Vps	100 Vps	10.0 sec	0.0 V	100.00 uA	3000 V
02.013	CHANNEL13	1000.00 uA	1166.0 V	0.00 uA	0.0 V	OFF	Ext Dis	100 Vps	100 Vps	10.0 sec	0.0 V	100.00 uA	3000 V
02.014	CHANNEL14	1000.00 uA	1164.0 V	0.00 uA	0.0 V	OFF	Ext Dis	100 Vps	100 Vps	10.0 sec	0.0 V	100.00 uA	3000 V
02.015	CHANNEL15	1000.00 uA	1067.0 V	0.00 uA	0.0 V	OFF	Ext Dis	100 Vps	100 Vps	10.0 sec	0.0 V	100.00 uA	3000 V
02.016	CHANNEL16	1000.00 uA	1206.0 V	0.00 uA	0.0 V	OFF	Ext Dis	100 Vps	100 Vps	10.0 sec	0.0 V	100.00 uA	3000 V
02.017	CHANNEL17	1000.00 uA	1217.0 V	0.00 uA	0.0 V	OFF	Ext Dis	100 Vps	100 Vps	10.0 sec	0.0 V	100.00 uA	3000 V
02.018	CHANNEL18	1000.00 uA	1202.0 V	0.00 uA	0.0 V	OFF	Ext Dis	100 Vps	100 Vps	10.0 sec	0.0 V	100.00 uA	3000 V
02.019	CHANNEL19	1000.00 uA	1237.0 V	0.00 uA	0.0 V	OFF	Ext Dis	100 Vps	100 Vps	10.0 sec	0.0 V	100.00 uA	3000 V
02.020	CHANNEL20	1000.00 uA	1307.0 V	0.00 uA	0.0 V	OFF	Ext Dis	100 Vps	100 Vps	10.0 sec	0.0 V	100.00 uA	3000 V
02.021	CHANNEL21	1000.00 uA	1155.0 V	0.00 uA	0.0 V	OFF	Ext Dis	100 Vps	100 Vps	10.0 sec	0.0 V	100.00 uA	3000 V
02.022	CHANNEL22	1000.00 uA	1088.0 V	0.00 uA	0.0 V	OFF	Ext Dis	100 Vps	100 Vps	10.0 sec	0.0 V	100.00 uA	3000 V
02.023	CHANNEL23	1000.00 uA	1182.0 V	0.00 uA	0.0 V	OFF	Ext Dis	100 Vps	100 Vps	10.0 sec	0.0 V	100.00 uA	3000 V
02.024	CHANNEL24	1000.00 uA	1200.0 V	0.00 uA	0.0 V	OFF	Ext Dis	100 Vps	100 Vps	10.0 sec	0.0 V	100.00 uA	3000 V
02.025	CHANNEL25	100.00 uA	3.0 V	0.00 uA	0.0 V	OFF	Ext Dis	50 Vps	50 Vps	10.0 sec	0.0 V	100.00 uA	3000 V

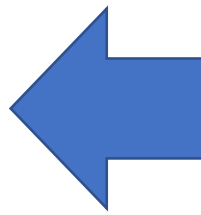
Board02 - A1536 - [40]

A1536 Module

BdStatus 3591 V

HiMax 25 °C

Temp



Not Connected: Board will be red

continue to slide #

Name: This corresponds to the cable number. Channel1 = HV #1

V0Set: This is the voltage set for each individual channel. It corresponds to the list in the excel sheet. ****DO NOT CHANGE****

VMon: Actual voltage being read

RUp/RDwn: How quickly it ramps up and down the voltage. Set at 100 Vps

Custom	Name	I0Set	V0Set	IMon	VMon	Pw	Status	RUp	RDwn	Trip	V1Set	I1Set	SVMMax
02.000	CHANNEL0	1000.00 uA	1120.0 V	0.00 uA	0.0 V	Off		100 Vps	100 Vps	10.0 sec	0.0 V	100.00 uA	3000 V
02.001	CHANNEL1	1000.00 uA	1121.0 V	0.00 uA	0.0 V	Off		100 Vps	100 Vps	10.0 sec	0.0 V	100.00 uA	3000 V
02.002	CHANNEL2	1000.00 uA	1251.0 V	0.00 uA	0.0 V	Off		100 Vps	100 Vps	10.0 sec	0.0 V	100.00 uA	3000 V
02.003	CHANNEL3	1000.00 uA	1148.0 V	0.00 uA	0.0 V	Off		100 Vps	100 Vps	10.0 sec	0.0 V	100.00 uA	3000 V
02.004	CHANNEL4	1000.00 uA	1129.0 V	0.00 uA	0.0 V	Off		100 Vps	100 Vps	10.0 sec	0.0 V	100.00 uA	3000 V
02.005	CHANNEL5	1000.00 uA	1328.0 V	0.00 uA	0.0 V	Off		100 Vps	100 Vps	10.0 sec	0.0 V	100.00 uA	3000 V
02.006	CHANNEL6	1000.00 uA	1268.0 V	0.00 uA	0.0 V	Off		100 Vps	100 Vps	10.0 sec	0.0 V	100.00 uA	3000 V
02.007	CHANNEL7	1000.00 uA	1149.0 V	0.00 uA	0.0 V	Off		100 Vps	100 Vps	10.0 sec	0.0 V	100.00 uA	3000 V
02.008	CHANNEL8	1000.00 uA	1199.0 V	0.00 uA	0.0 V	Off		100 Vps	100 Vps	10.0 sec	0.0 V	100.00 uA	3000 V
02.009	CHANNEL9	1000.00 uA	1261.0 V	0.00 uA	0.0 V	Off		100 Vps	100 Vps	10.0 sec	0.0 V	100.00 uA	3000 V
02.010	CHANNEL10	1000.00 uA	1198.0 V	0.00 uA	0.0 V	Off		100 Vps	100 Vps	10.0 sec	0.0 V	100.00 uA	3000 V

I0Set: This is the maximum current allowed. If it exceeds this, it will stop running voltage through the channel. It should be set to 1000.00 uA

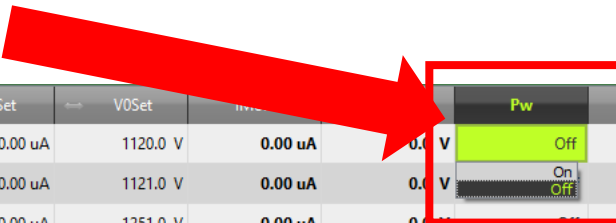
IMon: Actual current being read

Pw: This turns the voltage on and off. These are all set to off, but should all be on during experiment.

Various Presets: Do we want to say anything about these?

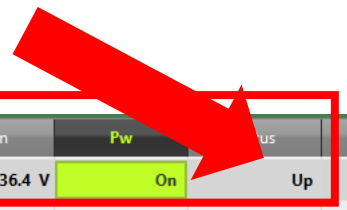
If board is white....

1. Power on




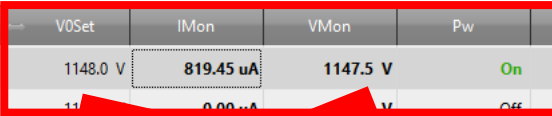
Custom	Name	I0Set	V0Set	IMon	VMon	Pw	Status	RUUp
02.000	CHANNEL0	1000.00 uA	1120.0 V	0.00 uA	0.0 V	Off		100 Vps
02.001	CHANNEL1	1000.00 uA	1121.0 V	0.00 uA	0.0 V	On		100 Vps
02.002	CHANNEL2	1000.00 uA	1251.0 V	0.00 uA	0.0 V	Off		100 Vps
02.003	CHANNEL3	1000.00 uA	1148.0 V	0.00 uA	0.0 V	Off		100 Vps
02.004	CHANNEL4	1000.00 uA	1129.0 V	0.00 uA	0.0 V	Off		100 Vps
02.005	CHANNEL5	1000.00 uA	1328.0 V	0.00 uA	0.0 V	Off		100 Vps
02.006	CHANNEL6	1000.00 uA	1268.0 V	0.00 uA	0.0 V	Off		100 Vps

2. Voltage will ramp up at 100 Vps



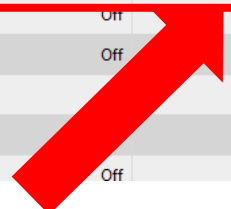
Custom	Name	I0Set	V0Set	IMon	VMon	Pw	Status	RUUp
02.003	CHANNEL3	1000.00 uA	1148.0 V	174.70 uA	236.4 V	On	Up	100 Vps
02.004	CHANNEL4	1000.00 uA	1129.0 V	0.00 uA	0.0 V	Off		100 Vps
02.005	CHANNEL5	1000.00 uA	1328.0 V	0.00 uA	0.0 V	Off		100 Vps
02.006	CHANNEL6	1000.00 uA	1268.0 V	0.00 uA	0.0 V	Off		100 Vps
02.007	CHANNEL7	1000.00 uA	1149.0 V	0.00 uA	0.0 V	Off		100 Vps
02.008	CHANNEL8	1000.00 uA	1199.0 V	0.00 uA	0.0 V	Off		100 Vps

3. Voltage will level out near the V0Set value



Custom	Name	I0Set	V0Set	IMon	VMon	Pw	Status	RUUp
02.003	CHANNEL3	1000.00 uA	1148.0 V	819.45 uA	1147.5 V	On		100 Vps
02.004	CHANNEL4	1000.00 uA	1129.0 V	0.00 uA	0.0 V	Off		100 Vps
02.005	CHANNEL5	1000.00 uA	1328.0 V	0.00 uA	0.0 V	Off		100 Vps
02.006	CHANNEL6	1000.00 uA	1268.0 V	0.00 uA	0.0 V	Off		100 Vps
02.007	CHANNEL7	1000.00 uA	1149.0 V	0.00 uA	0.0 V	Off		100 Vps
02.008	CHANNEL8	1000.00 uA	1199.0 V	0.00 uA	0.0 V	Off		100 Vps

3. Voltage will ramp down at 100 Vps

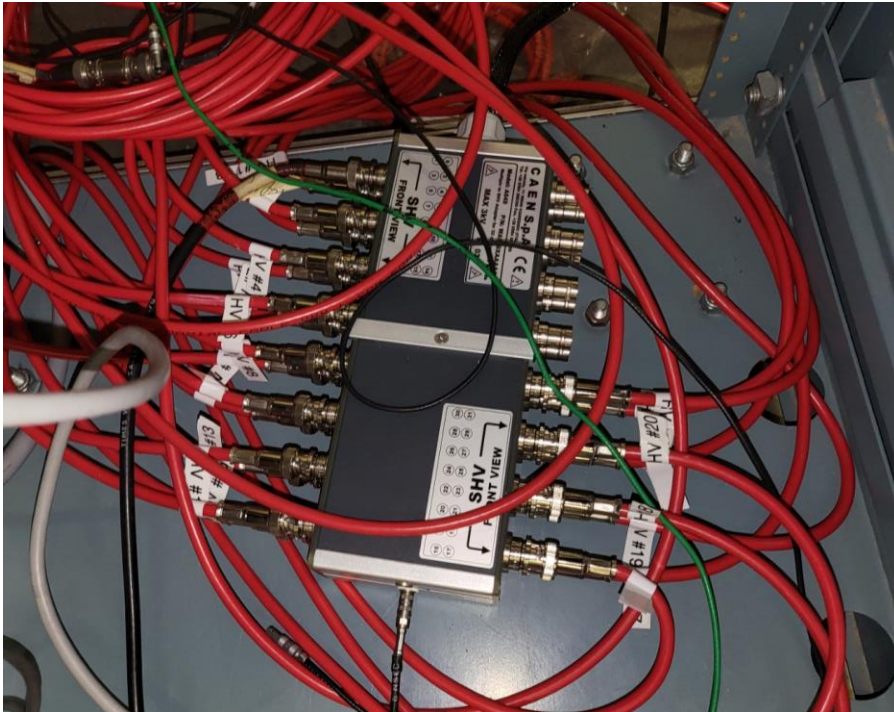


Custom	Name	I0Set	V0Set	IMon	VMon	Pw	Status	RUUp
02.003	CHANNEL3	1000.00 uA	1148.0 V	742.80 uA	1044.3 V	Off	Down	100 Vps
02.004	CHANNEL4	1000.00 uA	1129.0 V	0.00 uA	0.0 V	Off		100 Vps
02.005	CHANNEL5	1000.00 uA	1328.0 V	0.00 uA	0.0 V	Off		100 Vps
02.006	CHANNEL6	1000.00 uA	1268.0 V	0.00 uA	0.0 V	Off		100 Vps
02.007	CHANNEL7	1000.00 uA	1149.0 V	0.00 uA	0.0 V	Off		100 Vps
02.008	CHANNEL8	1000.00 uA	1199.0 V	0.00 uA	0.0 V	Off		100 Vps

If board is red....

Locate the HV cable box

It is on the bottom of the electrical rack. It has all the red HV cables attached to it.



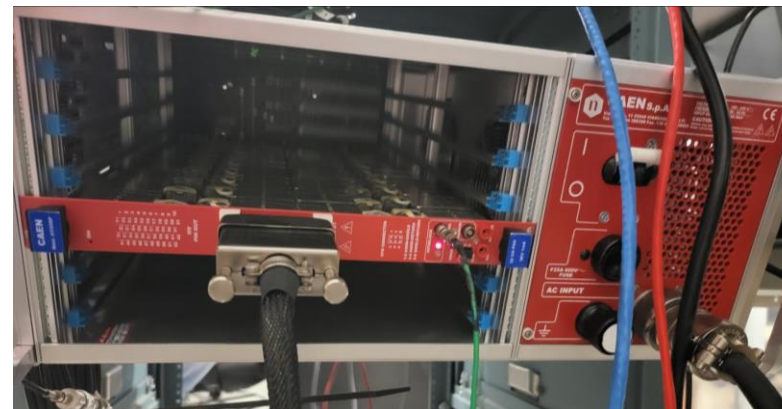
HV cable box

Locate the CAEN primary power supply

It is attached to the electrical rack above the HV cable box.



Front of the primary power supply

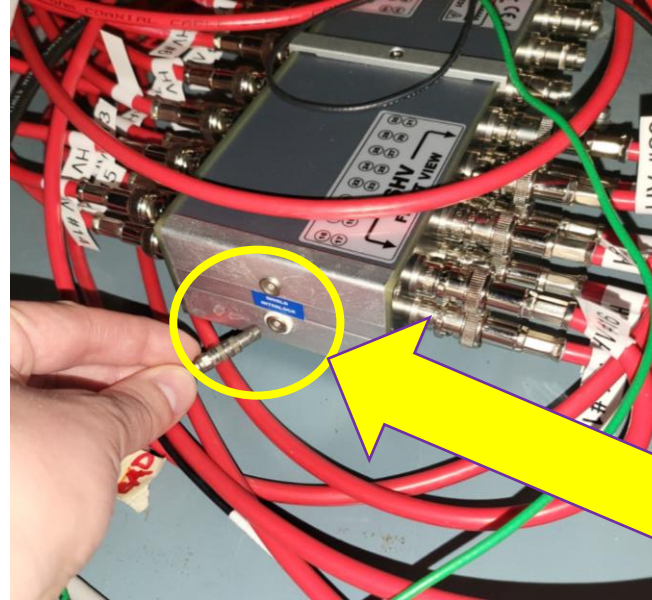


Back of the primary power supply

If board is red....

Make sure the interlock cable is connected

It is a small cable that connects the primary power supply to the HV cable box.



*Interlock cable on
HV cable box*

On the HV cable box

It is under the blue rectangle that says shield interlock. See image

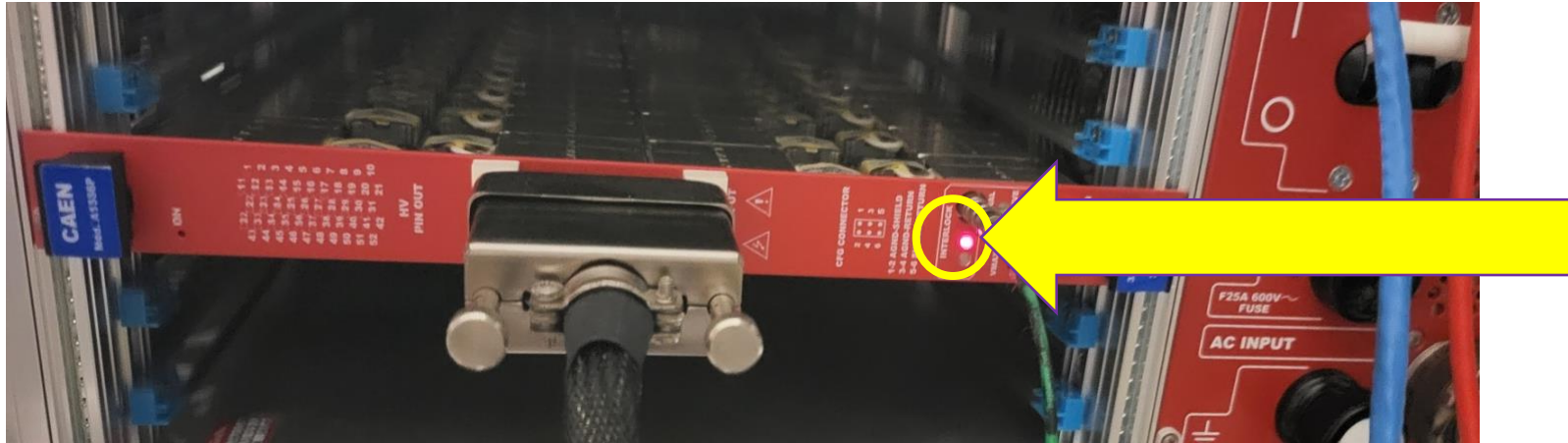
*Interlock cable on
back of primary
power supply*

On the primary power supply

It is on the back of the box on the right side. See image



If board is red....



If successful, the red light will turn off.



If the cable was already plugged in or the red light is still on....cry. Ask Kitty and Anthony what to put here.