



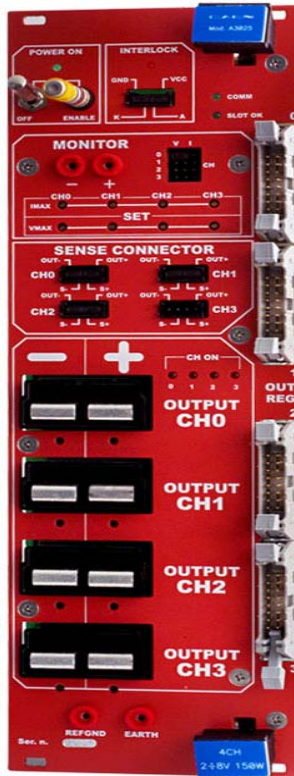
# ES LV Racks in CMS Cavern etc.



CAEN Mainframe:  
 telnet 10.176.64.13 1527  
 from cmsusr1.cern.ch  
 username: admin  
 password: call 164644



CAEN A3025



Ch0  
 Ch1  
 Ch2  
 Ch3

1. The current values from TIF testing for One DEE CF04,05,06,07,08,09, the other DEE's values should be same with this.
2. For set up Limit current value, 10% more than the real value.
3. Following 12 pages shows LV Limit Current value.



# ES LV crate X3S32 (-z, -x) upper



Ch0	<b>CF03</b> <b>G10L,G10R</b> <b>ana(16.94)</b> L:8.144 A; R: 8.8A CH 7-1	<b>CF02</b> <b>G09R</b> <b>Digi(5.6A)</b> CH 7-6	<b>G08R</b> <b>Ana(11.22A)</b> CH 7-11	<b>CF01</b> <b>G04L,G04R</b> <b>Digi(7.48A)</b> L:4.4A;R:3.08A CH 7-16	<b>CR03</b> <b>G05L,G05R</b> <b>Digi(10.56A)</b> L:4.51A;R:6.05A CH 7-21
Ch1	<b>G10L,G10R</b> <b>Digi(9.13A)</b> L:4.62A;R:4.51A CH 7-2	<b>G09R</b> <b>Ana(9.9A)</b> CH 7-7	<b>G06L,G06R</b> <b>Ana(18.15A)</b> L:9.35A;R:8.8A CH 7-12	<b>G07L, G07R</b> <b>Ana(10.78A)</b> L:4.07A;R:6.71A CH 7-17	<b>CR02</b> <b>G03L</b> <b>Ana(11.22A)</b> CH 7-22
Ch2	<b>G09L</b> <b>Ana(9.79A)</b> CH 7-3	<b>G08L</b> <b>Ana(11.44A)</b> CH 7-8	<b>G06L,G06R</b> <b>Digi(10.56A)</b> L:6.05A;R:4.51A CH 7-13	<b>G07L,G07R</b> <b>Digi(7.37A)</b> L:3.08A;R:4.29A CH 7-18	<b>G03L,G03R</b> <b>Digi(12.32A)</b> L:6.16A;R:6.16A CH 7-23
Ch3	<b>G09L</b> <b>Digi(4.73A)</b> CH 7-4	<b>G08L,G08R</b> <b>Digi(11.299A)</b> L:5.94A;R:6.05A CH 7-9	<b>G04L,G04R</b> <b>Ana(10.89A)</b> L:6.71A;R:4.18A CH 7-14	<b>G05L,G05R</b> <b>Ana(18.15A)</b> L:8.8A;R:9.35A CH 7-19	<b>G03R</b> <b>Ana(11.44A)</b> CH 7-24
	Slot 00	Slot 04	Slot 08	Slot 12	Slot 16

AC/DC:  
CH 7-26  
CH 7-27



# ES LV crate X3S32 (-z, -x) middle



Ch0	<b>CR01</b> <b>G02L</b> <b>Ana(9.79A)</b> CH 7-29	<b>CR12</b> <b>G01R</b> <b>Digi(4.62A)</b> CH 7-34	<b>CR11</b> <b>G39L</b> <b>Ana(9.9A)</b> CH 7-39	<b>G38L</b> <b>Digi(6.05A)</b> CH 7-44	<b>CR10</b> <b>G36L,G36R</b> <b>Digi(11.99A)</b> <b>L:4.51A;R:7.48A</b> CH 7-49
Ch1	<b>G02L</b> <b>Digi(6.05A)</b> CH 7-30	<b>G01R</b> <b>Ana(8.14A)</b> CH 7-35	<b>G39L,G39R</b> <b>Digi(12.1A)</b> <b>L:6.16A;R:5.94A</b> CH 7-40	<b>G38R</b> <b>Ana(9.35A)</b> CH 7-45	<b>G36R</b> <b>Ana(10.89A)</b> CH 7-50
Ch2	<b>G01L,G02R</b> <b>Digi(9.24A)</b> <b>L:4.73A;R:4.51A</b> CH 7-31	<b>G40L,G40R</b> <b>Ana(18.59A)</b> <b>L:8.8A;R:9.79A</b> CH 7-36	<b>G39R</b> <b>Ana(11.44A)</b> CH 7-41	<b>G38R</b> <b>Digi(6.05A)</b> CH 7-46	<b>CF12</b> <b>G37L,G37R</b> <b>Ana(10.78A)</b> <b>L:4.07A;R:6.71A</b> CH 7-51
Ch3	<b>G01L,G02R</b> <b>Ana(18.81A)</b> <b>L:8.91A;R:9.9A</b> CH 7-32	<b>G40L,G40R</b> <b>Digi(9.24A)</b> <b>L:4.51A;R:4.73A</b> CH 7-37	<b>G38L</b> <b>Ana(11.22A)</b> CH 7-42	<b>G36L</b> <b>Ana(8.8A)</b> CH 7-47	<b>G37L,G37R</b> <b>Digi(7.37A)</b> <b>L:3.08A;R:4.29A</b> CH 7-52

AC/DC :  
 CH 7-54  
 CH 7-55

Slot 00

Slot 04

Slot 08

Slot 12

Slot 16



# ES LV crate X3S32 (-z, -x) lower



Ch0	<b>CF12</b> <b>G35L,G35R</b> <b>Ana(18.15A)</b> <b>L:8.8A;R:9.35A)</b> CH 7-57	<b>CF11</b> <b>G34R</b> <b>Ana(11.44A)</b> CH 7-62	<b>CF10</b> <b>G31L</b> <b>Ana(8.91A)</b> CH 7-67		
Ch1	<b>G35L,G35R</b> <b>Digi(10.56A)</b> <b>L:4.51A;R:6.05A)</b> CH 7-58	<b>G33L</b> <b>Ana(9.79A)</b> CH 7-63	<b>G31L</b> <b>Digi(4.73A)</b> CH 7-68		
Ch2	<b>G34L</b> <b>Ana(11.22A)</b> CH 7-59	<b>G33L,G33R</b> <b>Digi(10.56A)</b> <b>L:6.05A;R:4.51A)</b> CH 7-64			
Ch3	<b>G34L,G34R</b> <b>Digi(12.32A)</b> <b>L:6.16A;R:6.16A)</b> CH 7-60	<b>G33R</b> <b>Ana(9.9A)</b> CH 7-65			
	Slot 00	Slot 04	Slot 08	Slot 12	Slot 16

AC/DC:  
 CH 7-82  
 CH 7-83



# ES LV crate X3V32 (-z, +x) upper



Ch0	<b>CF04</b> <b>G11L</b> Ana(8.91A) CH 5-1	<b>G13R</b> Ana(9.9A) CH 5-6	<b>CF06</b> <b>G15L,G15R</b> Ana(18.15A) L:8.8A;R:9.35A CH 5-11	<b>CR04</b> <b>G16L</b> Ana(8.8A) CH 5-16	<b>G18R</b> Ana(9.35A) CH 5-21
Ch1	<b>G11L</b> Digi(4.73A) CH 5-2	<b>CF05</b> <b>G14L</b> Ana(11.22A) CH 5-7	<b>G15L,G15R</b> Digi(10.56A) L:4.51A;R:6.05A CH 5-12	<b>G16L, G16R</b> Digi(11.88) L:4.51A;R:7.37A CH 5-17	<b>CR05</b> <b>G18L</b> Ana(11.22A) CH 5-22
Ch2	<b>G13L</b> Ana(9.79A) CH 5-3	<b>G14L,G14R</b> Digi(12.32A) L:6.16A;R:6.16A CH 5-8	<b>G17L,G17R</b> Ana(10.78A) L:4.07A;R:6.71A CH 5-13	<b>G16R</b> Ana(10.78A) CH 5-18	<b>G18L</b> Digi(6.05A) CH 5-23
Ch3	<b>G13L,G13R</b> Digi(10.56A) L:6.05A;R:4.51A CH 5-4	<b>G14R</b> Ana(11.44A) CH 5-9	<b>G17L,G17R</b> Digi(7.37A) L:3.08A;R:4.29A CH 5-14	<b>G18R</b> Digi(6.05A) CH 5-19	<b>G19L</b> Ana(9.9A) CH 5-24
	Slot 00	Slot 04	Slot 08	Slot 12	Slot 16

AC/DC:  
 CH 5-26  
 CH 5-27



# ES LV crate X3V32 (-z, +x) middle



Ch0	<b>CR05</b> <b>G19L,G19R</b> <b>Digi(12.1A)</b> <b>L:6.16A;R:5.94A</b> CH 5-29	<b>CR06</b> <b>G21R</b> <b>Digi(4.62A)</b> CH 5-34	<b>CR07</b> <b>G22L</b> <b>Ana(9.79A)</b> CH 5-39	<b>CR08</b> <b>G23R</b> <b>Ana(11.44A)</b> CH 5-44	<b>CR09</b> <b>G27L,G27R</b> <b>Digi(7.37A)</b> <b>L:3.08A;R:4.29A</b> CH 5-49
Ch1	<b>G19R</b> <b>Ana(11.44A)</b> CH 5-30	<b>G21R</b> <b>Ana(8.14A)</b> CH 5-35	<b>G22L</b> <b>Digi(6.05A)</b> CH 5-40	<b>G25L,G25R</b> <b>Ana(18.15A)</b> <b>L:8.8A;R:9.35A</b> CH 5-45	<b>CF07</b> <b>G24L,G24R</b> <b>Ana(10.89A)</b> <b>L:6.71A;R:4.18A</b> CH 5-50
Ch2	<b>G20L,G20R</b> <b>Ana(18.59A)</b> <b>L:8.8A;R:9.79A</b> CH 5-31	<b>G21L,G22R</b> <b>Ana(18.81A)</b> <b>L:8.91A;R:9.9A</b> CH 5-36	<b>G23L</b> <b>Ana(11.22A)</b> CH 5-41	<b>G25L,G25R</b> <b>Digi(10.56A)</b> <b>L:4.51A;R:6.05A</b> CH 5-46	<b>G24L,G24R</b> <b>Digi(7.48A)</b> <b>L:4.4A;R:3.08A</b> CH 5-51
Ch3	<b>G20L,G20R</b> <b>Digi(9.24A)</b> <b>L:4.51A;R:4.73A</b> CH 5-32	<b>G21L,G22R</b> <b>Digi(9.24A)</b> <b>L:4.73A;R:4.51A</b> CH 5-37	<b>G23L,G23R</b> <b>Digi(12.32A)</b> <b>L:6.16A;R:6.16A</b> CH 5-42	<b>G27L,G27R</b> <b>Ana(10.78A)</b> <b>L:4.07A;R:6.71A</b> CH 5-47	<b>G26L,G26R</b> <b>Ana(18.15A)</b> <b>L:9.35A;R:8.8A</b> CH 5-52
	Slot 00	Slot 04	Slot 08	Slot 12	Slot 16

AC/DC:  
 CH 5-54  
 CH 5-55



# ES LV crate X3V32 (-z, +x) lower



Ch0	<b>CF07</b> <b>G26L,G26R</b> <b>Digi(10.56A)</b> L:6.05A;R:4.51A CH 5-57	<b>CF08</b> <b>G29R</b> <b>Ana(9.9A)</b> CH 5-62	<b>CF09</b> <b>G30L,G30R</b> <b>Ana(16.94A)</b> L:8.14A;R:8.8A CH 5-67		
Ch1	<b>G28L</b> <b>Ana(11.44A)</b> CH 5-58	<b>G29R</b> <b>Digi(6.16A)</b> CH 5-63	<b>G30L,G30R</b> <b>Digi(9.13A)</b> L:4.62A;R:4.51A CH 5-68		
Ch2	<b>G28L,G28R</b> <b>Digi(11.99A)</b> CH 5-59	<b>G29L</b> <b>Ana(9.79A)</b> CH 5-64			
Ch3	<b>G28R</b> <b>Ana(11.22A)</b> CH 5-60	<b>G29L</b> <b>Digi(4.73A)</b> CH 5-65			
	Slot 00	Slot 04	Slot 08	Slot 12	Slot 16

AC/DC:  
 CH 5-82  
 CH 5-83



# ES LV crate X3J32 (+z, +x) upper



Ch0	<b>CF03</b> <b>G10L,G10R</b> <b>ana(16.94A)</b> <b>L:8.14 A; R: 8.8A</b> CH 1-1	<b>CF02</b> <b>G09R</b> <b>Digi(6.16A)</b> CH 1-6	<b>G08R</b> <b>Ana(11.22A)</b> CH 1-11	<b>CF01</b> <b>G04L,G04R</b> <b>Digi(7.48A)</b> <b>L:4.4A;R:3.08A</b> CH 1-16	<b>CR03</b> <b>G05L,G05R</b> <b>Digi(10.56A)</b> <b>L:4.51A;R:6.05A</b> CH 1-21
Ch1	<b>G10L,G10R</b> <b>Digi(9.13A)</b> <b>L:4.62A;R:4.51A</b> CH 1-2	<b>G09R</b> <b>Ana(9.9A)</b> CH 1-7	<b>G06L,G06R</b> <b>Ana(18.15A)</b> <b>L:9.35A;R:8.8A</b> CH 1-12	<b>G07L, G07R</b> <b>Ana(10.78A)</b> <b>L:4.07A;R:6.71A</b> CH 1-17	<b>CR02</b> <b>G03L</b> <b>Ana(11.22A)</b> CH 1-22
Ch2	<b>G09L</b> <b>Ana(9.79A)</b> CH 1-3	<b>G08L</b> <b>Ana(11.44A)</b> CH 1-8	<b>G06L,G06R</b> <b>Digi(10.56A)</b> <b>L:6.05A;R:4.51A</b> CH 1-13	<b>G07L,G07R</b> <b>Digi(7.37A)</b> <b>L:3.08A;R:4.29A</b> CH 1-18	<b>G03L,G03R</b> <b>Digi(12.32A)</b> <b>L:6.16A;R:6.16A</b> CH 1-23
Ch3	<b>G09L</b> <b>Digi(4.73A)</b> CH 1-4	<b>G08L,G08R</b> <b>Digi(11.99A)</b> <b>L:5.94A;R:6.05A</b> CH 1-9	<b>G04L,G04R</b> <b>Ana(10.89A)</b> <b>L:6.71A;R:4.18A</b> CH 1-14	<b>G05L,G05R</b> <b>Ana(18.15A)</b> <b>L:8.8A;R:9.35A</b> CH 1-19	<b>G03R</b> <b>Ana(11.44A)</b> CH 1-24

AC/DC:  
 CH 1-26  
 CH 1-27

Slot 00                      Slot 04                      Slot 08                      Slot 12                      Slot 16





# ES LV crate X3J32 (+z, +x) middle



Ch0	<b>CR01</b> <b>G02L</b> Ana(9.79A) CH 1-29	<b>CR12</b> <b>G01R</b> Digi(4.62A) CH 1-34	<b>CR11</b> <b>G39L</b> Ana(9.9A) CH 1-39	<b>G38L</b> Digi(6.05A) CH 1-44	<b>CR10</b> <b>G36L,G36R</b> Digi(11.99A) L:4.51A;R:7.48A CH 1-49
Ch1	<b>G02L</b> Digi(6.05A) CH 1-30	<b>G01R</b> Ana(8.14A) CH 1-35	<b>G39L,G39R</b> Digi(12.1A) L:6.16A;R:5.94A CH 1-40	<b>G38R</b> Ana(9.35A) CH 1-45	<b>G36R</b> Ana(10.89A) CH 1-50
Ch2	<b>G01L,G02R</b> Digi(9.24A) L:4.73A;R:4.51A CH 1-31	<b>G40L,G40R</b> Ana(18.59A) L:8.8A;R:9.79A CH 1-36	<b>G39R</b> Ana(11.44A) CH 1-41	<b>G38R</b> Digi(6.05A) CH 1-46	<b>CF12</b> <b>G37L,G37R</b> Ana(10.78A) L:4.07A;R:6.71A CH 1-51
Ch3	<b>G01L,G02R</b> Ana(18.81A) L:8.91A;R:9.9A CH 1-32	<b>G40L,G40R</b> Digi(9.24A) L:4.51A;R:4.73A CH 1-37	<b>G38L</b> Ana(11.22A) CH 1-42	<b>G36L</b> Ana(8.8A) CH 1-47	<b>G37L,G37R</b> Digi(7.37A) L:3.08A;R:4.29A CH 1-52

AC/DC :  
 CH 1-54  
 CH 1-55

Slot 00

Slot 04

Slot 08

Slot 12

Slot 16



# ES LV crate X3J32 (+z, +x) lower



Ch0	<b>CF12</b> <b>G35L,G35R</b> <b>Ana(18.15A)</b> <b>L:8.8A;R:9.35A)</b> CH 1-57	<b>CF11</b> <b>G34R</b> <b>Ana(11.44A)</b> CH 1-69	<b>CF10</b> <b>G31L</b> <b>Ana(8.91A)</b> CH 1-67		
Ch1	<b>G35L,G35R</b> <b>Digi(10.56A)</b> <b>L:4.51A;R:6.05A)</b> CH 1-58	<b>G33L</b> <b>Ana(9.79A)</b> CH 1-63	<b>G31L</b> <b>Digi(4.73A)</b> CH 1-68		
Ch2	<b>G34L</b> <b>Ana(11.22A)</b> CH 1-59	<b>G33L,G33R</b> <b>Digi(10.56A)</b> <b>L:6.05A;R:4.51A)</b> CH 1-64			
Ch3	<b>G34L,G34R</b> <b>Digi(12.32A)</b> <b>L:6.16A;R:6.16A)</b> CH 1-60	<b>G33R</b> <b>Ana(9.9A)</b> CH 1-65			
	Slot 00	Slot 04	Slot 08	Slot 12	Slot 16

AC/DC:  
 CH 1-82  
 CH 1-83

N.B. Slot06  
 Ch0 powered by  
 CH 1-69



# ES LV crate X3A32 (+z, -x) upper



Ch0	<b>CF04</b> <b>G11L</b> Ana(8.91A) CH 3-1	<b>G13R</b> Ana(9.9A) CH 3-6	<b>CF06</b> <b>G15L,G15R</b> Ana(18.15A) L:8.8A;R:9.35A CH 3-11	<b>CR04</b> <b>G16L</b> Ana(8.8A) CH 3-16	<b>G18R</b> Ana(9.35A) CH 3-21
Ch1	<b>G11L</b> Digi(4.73A) CH 3-2	<b>CF05</b> <b>G14L</b> Ana(11.22A) CH 3-7	<b>G15L,G15R</b> Digi(10.56A) L:4.51A;R:6.05A CH 3-12	<b>G16L, G16R</b> Digi(11.88) L:4.51A;R:7.37A CH 3-17	<b>CR05</b> <b>G18L</b> Ana(11.22A) CH 3-22
Ch2	<b>G13L</b> Ana(9.79A) CH 3-3	<b>G14L,G14R</b> Digi(12.32A) L:6.16A;R:6.16A CH 3-8	<b>G17L,G17R</b> Ana(10.78A) L:4.07A;R:6.71A CH 3-13	<b>G16R</b> Ana(10.78A) CH 3-18	<b>G18L</b> Digi(6.05A) CH 3-23
Ch3	<b>G13L,G13R</b> Digi(10.56A) L:6.05A;R:4.51A CH 3-4	<b>G14R</b> Ana(11.44A) CH 3-9	<b>G17L,G17R</b> Digi(7.37A) L:3.08A;R:4.29A CH 3-14	<b>G18R</b> Digi(6.05A) CH 3-19	<b>G19L</b> Ana(9.9A) CH 3-24
	Slot 00	Slot 04	Slot 08	Slot 12	Slot 16

AC/DC:  
 CH 3-26  
 CH 3-27



# ES LV crate X3A32 (+z, -x) middle



Ch0	<b>CR05</b> <b>G19L,G19R</b> <b>Digi(12.1A)</b> L:6.16A;R:5.94A CH 3-29	<b>CR06</b> <b>G21R</b> <b>Digi(4.62A)</b> CH 3-34	<b>CR07</b> <b>G22L</b> <b>Ana(9.79A)</b> CH 3-39	<b>CR08</b> <b>G23R</b> <b>Ana(11.44A)</b> CH 3-44	<b>CR09</b> <b>G27L,G27R</b> <b>Digi(7.37A)</b> L:3.08A;R:4.29A CH 3-49
Ch1	<b>G19R</b> <b>Ana(11.44A)</b> CH 3-30	<b>G21R</b> <b>Ana(8.14A)</b> CH 3-35	<b>G22L</b> <b>Digi(6.05A)</b> CH 3-40	<b>G25L,G25R</b> <b>Ana(18.15A)</b> L:8.8A;R:9.35A CH 3-45	<b>CF07</b> <b>G24L,G24R</b> <b>Ana(10.89A)</b> L:6.71A;R:4.18A CH 3-50
Ch2	<b>G20L,G20R</b> <b>Ana(18.59A)</b> L:8.8A;R:9.79A CH 3-31	<b>G21L,G22R</b> <b>Ana(18.81A)</b> L:8.91A;R:9.9A CH 3-36	<b>G23L</b> <b>Ana(11.22A)</b> CH 3-41	<b>G25L,G25R</b> <b>Digi(10.56A)</b> L:4.51A;R:6.05A CH 3-46	<b>G24L,G24R</b> <b>Digi(7.48A)</b> L:4.4A;R:3.08A CH 3-51
Ch3	<b>G20L,G20R</b> <b>Digi(9.24A)</b> L:4.51A;R:4.73A CH 3-32	<b>G21L,G22R</b> <b>Digi(9.24A)</b> L:4.73A;R:4.51A CH 3-37	<b>G23L,G23R</b> <b>Digi(12.32A)</b> L:6.16A;R:6.16A CH 3-42	<b>G27L,G27R</b> <b>Ana(10.78A)</b> L:4.07A;R:6.71A CH 3-47	<b>G26L,G26R</b> <b>Ana(18.15A)</b> L:9.35A;R:8.8A CH 3-52
	Slot 00	Slot 04	Slot 08	Slot 12	Slot 16

AC/DC:  
 CH 3-54  
 CH 3-55



# ES LV crate X3A32 (+z, -x) lower



Ch0	<b>CF07</b> <b>G26L,G26R</b> <b>Digi(10.56A)</b> L:6.05A;R:4.51A CH 3-57	<b>CF08</b> <b>G29R</b> <b>Ana(9.9A)</b> CH 3-62	<b>CF09</b> <b>G30L,G30R</b> <b>Ana(16.94A)</b> L:8.14A;R:8.8A CH 3-67		
Ch1	<b>G28L</b> <b>Ana(11.44A)</b> CH 3-58	<b>G29R</b> <b>Digi(6.16A)</b> CH 3-63	<b>G30L,G30R</b> <b>Digi(9.13A)</b> L:4.62A;R:4.51A CH 3-69		
Ch2	<b>G28L,G28R</b> <b>Digi(12.1A)</b> CH 3-59	<b>G29L</b> <b>Ana(9.79A)</b> CH 3-64			
Ch3	<b>G28R</b> <b>Ana(11.22A)</b> CH 3-60	<b>G29L</b> <b>Digi(4.73A)</b> CH 3-65			
	Slot 00	Slot 04	Slot 08	Slot 12	Slot 16

AC/DC:  
 CH 3-82  
 CH 3-83

N.B. Slot10  
 Ch1 powered by  
 CH 3-69