UUT DATA : **Model** **PFM** **Item** **AMS02 POWER DISTRIBUTION SYSTEM** **C.I.** **PDS 18** **S/N** **FM01**

STEP n°	TEST SEQUENCE	EXPECTED VALUE	MEASURED VALUE	REMARKS
	BOARD STATUS OVT Alarm From O_1 CMD: TPD3 to O_8 CMD: TTPD_R From O_1 Status: TPD3 to O_8 Status: TTPD_R	**OK** OK ON **ON**	**OK** OK ON **ON**	
3A-1-B.36	Using board telemetries set to 2A current absorption all the outlets: From O_1: TPD3 to O_8: TTPD_R	OK	OK	Set active loads to constant current mode. Set current on display with 100mA above the desired value with the exception of out8 that is correct.
3A-1-B.37	Push on Read All button in Analog Readout column	OK	OK	
3A-1-B.38	Verify the telemetries: O_1 Current: TPD3 O_2 Current: TPD3 O_3 Current: JPD_N O_4 Current: SPD1_N O_5 Current: UGPD_N O_6 Current: SPD0_R O_7 Current: TPD1 O_8 Current: TTPD_R Temperature Analog Ref. 3.0V	2,000A±0,225A 2,000A±0,225A 2,000A±0,225A 2,000A±0,225A 2,000A±0,225A 2,000A±0,225A 2,000A±0,225A 2,00A±0,45A -40℃<T<80C° 3,000V±250mV	2,068A 2,069A 2,008A 2,037A 2,027 2,114A 2,016A 2,191A 27,99℃ 2,978V	
3A-1-B.39	Set the CAN BUS board address to 31	31	31	
3A-1-B.40	Select "CAN BUS I/F Side" to B	B	B	
3A-1-B.41	Push on Read All button in Analog Readout column	OK	OK	
3A-1-B.42	Verify the telemetries: O_1 Current: TPD3 O_2 Current: TPD3 O_3 Current: JPD_N O_4 Current: SPD1_N O_5 Current: UGPD_N O_6 Current: SPD0_R O_7 Current: TPD1 O_8 Current: TTPD_R Temperature Analog Ref. 3.0V	2,000A±0,225A 2,000A±0,225A 2,000A±0,225A 2,000A±0,225A 2,000A±0,225A 2,000A±0,225A 2,000A±0,225A 2,00A±0,45A -40℃<T<80C° 3,000V±250mV	2,004A 2,124A 2,076A 2,062A 2,023A 2,149A 2,041A 2,257A 31,17℃ 2,949V	
3A-1-B.43	Set to 0A current absorption all the outlets: From O_1: TPD3 to O_8: TTPD_R	OK	OK	
3A-1-B.44	Set OFF in the window All Outlets ON/OFF and push the relative "W" command	OK	OK	
3A-1-B.45	Click on Raed all to in Digital readout column	OK	OK	

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STEP n°	TEST SEQUENCE	EXPECTED VALUE	MEASURED VALUE	REMARKS
3A-1-B.46	Verify from digital readout column that all outlets are OFF	OK	OK	

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10.3.2.5.5 PB2-2 SIDE B

STEP n°	TEST SEQUENCE	EXPECTED VALUE	MEASURED VALUE	REMARKS
PB2-2-B.1	Connect BI_120V and BI_120V_RTN power supply signals	OK	OK	
PB2-2-B.2	Verify that all the cables of the section are connected	OK	OK	
PB2-2-B.3	Launch the PDS controller software	Program open	Program open	
PB2-2-B.4	Set to "FM" the window Model	OK	OK	
PB2-2-B.5	Select "PDS Side" to B	B	B	
PB2-2-B.6	Set the CAN BUS board address to 31	31	31	
PB2-2-B.7	Select JMDC = 0	0	0	
PB2-2-B.8	Select TX = A	A	A	
PB2-2-B.9	Select RX = A	A	A	
PB2-2-B.10	Select "CAN BUS I/F Side" to B	B	B	
PB2-2-B.11	Set input bus voltage to 120V	120V±1V	120V	
PB2-2-B.12	Set input bus current limitation to ~~15A~~ 27.5A	27,5A ~~15A~~±1A	27,5A	See PVS-02
PB2-2-B.13	Enable power supply output	enabled	enabled	
PB2-2-B.14	Verify that green led of "power switch box" is lighted	Green led ligthed	Green led ligthed	
PB2-2-B.15	Switch ON the "power switch "of "power switch box"	Switch ON	Switch ON	
PB2-2-B.16	Verify that red led of "power switch box" is lighted	Red led ligthed	Red led ligthed	
PB2-2-B.17	Take note of power supply output current	1,1A±0,5A	1,1A	
PB2-2-B.18	Click on Run flash button	OK	OK	
PB2-2-B.19	Set the CAN BUS board address to 30	30	30	
PB2-2-B.20	Select "CAN BUS I/F Side" to A	A	A	
PB2-2-B.21	Click on Run flash button	OK	OK	
PB2-2-B.22	Set the CAN BUS board address to 31	31	31	
PB2-2-B.23	Select "CAN BUS I/F Side" to B	B	B	
PB2-2-B.24	Click on PB2-2 button	OK	OK	This board is default OFF
PB2-2-B.25	Set Digital I/F Test logic value = 1 in "Commanding" column	1	1	Button located on left side of software window
PB2-2-B.26	Click on letter "W" on the right of the "1" value	OK	OK	
PB2-2-B.27	Click on the command READ ALL under the column Digital Readout	OK	OK	
PB2-2-B.28	Verify that in the column Digital Readout under the voice Digital I/F Test appears "1"	1	1	
PB2-2-B.29	Set Digital I/F Test logic value = 0 in "Commanding" column	0	0	
PB2-2-B.30	Click on letter "W" on the right of the "0" value	OK	OK	
PB2-2-B.31	Click on the command READ ALL under the column Digital Readout	OK	OK	
PB2-2-B.32	Verify that in the column Digital Readout under the voice Digital I/F Test appears "0"	0	0	
PB2-2-B.33	Click on the command READ ALL under the column Digital Readout	OK	OK	
PB2-2-B.34	Verify the status of the following flags:			

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STEP n°	TEST SEQUENCE	EXPECTED VALUE	MEASURED VALUE	REMARKS
	BOARD STATUS OVT ALARM Input OVC Alarm DCDC ON/OFF 27V UV 29V Trip DCDC OFF/ON CMD	OK OK OK **OFF** OK OK **OFF**	OK OK OK **OFF** OK OK **OFF**	
PB2-2-B.35	Click on the command READ ALL under the column Analog Readout	OK	OK	
PB2-2-B.36	Verify the value of the following telemetries: Temperature Analog Ref. 2.0V	 -40℃<T<80C° 2,000V±150mV	 26,93℃ 2,056V	
PB2-2-B.37	Set the CAN BUS board address to 30	30	30	
PB2-2-B.38	Select "CAN BUS I/F Side" to A	A	A	
PB2-2-B.39	Click on the command READ ALL under the column Digital Readout	OK	OK	
PB2-2-B.40	Verify the status of the following flags: BOARD STATUS OVT ALARM Input OVC Alarm DCDC ON/OFF 27V UNV 29V Trip DCDC OFF/ON CMD	 OK OK OK **OFF** OK OK **OFF**	 OK OK OK **OFF** OK OK **OFF**	
PB2-2-B.41	Set ON on DCDC OFF/ON command window and send the command	OK	OK	Power cell ON
PB2-2-B.42	Click on the command READ ALL under the column Digital Readout	OK	OK	
PB2-2-B.43	Verify the status of the following flags: BOARD STATUS OVT ALARM Input OVC Alarm DCDC ON/OFF 27V UNV 29V Trip DCDC OFF/ON CMD	 OK OK OK **ON** OK OK **ON**	 OK OK OK **ON** OK OK **ON**	
PB2-2-B.44	Click on ESEM 3A-2 button	OK	OK	
PB2-2-B.45	Set ON in the window "O_1: ER1_N" and push the relative "W" command	OK	OK	
PB2-2-B.46	Read on display the voltage on ESEM 3A 2 out 1 (Check that load is not connected)	28,00V±1,00V	28,1V	V1
PB2-2-B.47	Click on PB2-2 button	OK	OK	
PB2-2-B.48	Click on the command READ ALL under the column Analog Readout	OK	OK	
PB2-2-B.49	Verify the value of the following telemetry:			Click on relative Rbutton

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UUT DATA : **Model** **PFM** **Item** **AMS02 POWER DISTRIBUTION SYSTEM** **C.I.** **PDS 18** **S/N** **FM01**

STEP n°	TEST SEQUENCE	EXPECTED VALUE	MEASURED VALUE	REMARKS
	Output Voltage	V1±1.092V	28,79	V1 indicated on step PB2-2-B.46
PB2-2-B.50	Set the CAN BUS board address to 31	31	31	
PB2-2-B.51	Select "CAN BUS I/F Side" to B	B	B	
PB2-2-B.52	Click on the command READ ALL under the column Digital Readout	OK	OK	
PB2-2-B.53	Verify the status of the following flags: BOARD STATUS OVT ALARM Input OVC Alarm DCDC ON/OFF 27V UNV 29V Trip DCDC OFF/ON CMD	 OK OK OK **ON** OK OK **ON**	 OK OK OK **ON** OK OK **ON**	

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10.3.2.5.6 ESEM 3A-2 SIDE B

STEP n°	TEST SEQUENCE	EXPECTED VALUE	MEASURED VALUE	REMARKS
3A-2-B.1	Click on ESEM3-A-2 button	OK	OK	Button located on left side of software window
3A-2-B.2	Connect to active loads outlet 1, 2, 3, 4, 5, 6, 7 and 8.	OK	OK	
3A-2-B.3	Verify that loads are set to 0A current absorption	OK	OK	
3A-2-B.4	Set Digital I/F Test logic value = 1 in "Commanding" column	1	1	
3A-2-B.5	Click on letter "W" on the right of the "1" value	OK	OK	
3A-2-B.6	Click on the command READ ALL under the column Digital Readout	OK	OK	
3A-2-B.7	Verify that in the column Digital Readout under the voice Digital I/F Test appears "1"	1	1	
3A-2-B.8	Set Digital I/F Test logic value = 0 in "Commanding" column	0	0	
3A-2-B.9	Click on letter "W" on the right of the "0" value	OK	OK	
3A-2-B.10	Click on the command READ ALL under the column Digital Readout	OK	OK	
3A-2-B.11	Verify that in the column Digital Readout under the voice Digital I/F Test appears "0"	0	0	
3A-2-B.12	Set ON in the window All Outlets ON/OFF and push the relative "W" command	OK	OK	
3A-2-B.13	Read on display the voltage on this ESEM 3-A loads: O_1: ER1_N O_2: TPD2 O_3: TPD6 O_4: SPD3_N O_5: MPD_N O_6: UPD1 O_7: SPD2_N O_8: CAB_R	 28,00V±1,00V 28,00V±1,00V 28,00V±1,00V 28,00V±1,00V 28,00V±1,00V 28,00V±1,00V 28,00V±1,00V 28,00V±1,00V	 28V 28V 28V 28V 28V 28V 28V 28V	
3A-2-B.14	Click on Read All command in Digital Readout column	OK	OK	
3A-2-B.15	Verify the status of the following flags: BOARD STATUS OVT Alarm From O_1 CMD: ER1_N to O_8 CMD: CAB_R From O_1 Status: ER1_N to O_8 Status: CAB_R	 OK OK ON ON	 OK OK ON ON	
3A-2-B.16	Set the CAN BUS board address to 30	30	30	
3A-2-B.17	Select "CAN BUS I/F Side" to A	A	A	
3A-2-B.18	Click on Read All command in Digital Readout column	OK	OK	
3A-2-B.19	Verify the status of the following flags: BOARD STATUS OVT Alarm From O_1 CMD: ER1_N to O_8 CMD: CAB_R From O_1 Status: ER1_N to O_8 Status: CAB_R	 OK OK ON ON	 OK OK ON ON	

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STEP n°	TEST SEQUENCE	EXPECTED VALUE	MEASURED VALUE	REMARKS
3A-2-B.20	Generate a short circuit on the passive load keyboards: From O_1: ER1_N to O_8: CAB_R	OK	OK	
3A-2-B.21	Read on display the voltage on this ESEM 3-A loads: O_1: ER1_N O_2: TPD2 O_3: TPD6 O_4: SPD3_N O_5: MPD_N O_6: UPD1 O_7: SPD2_N O_8: CAB_R	 0,00V<V<1,00V 0,00V<V<1,00V 0,00V<V<1,00V 0,00V<V<1,00V 0,00V<V<1,00V 0,00V<V<1,00V 0,00V<V<1,00V 0,00V<V<1,00V	 0V 0V 0V 0V 0V 0V 0V 0V	
3A-2-B.22	Click on Read All command in Digital Readout column	OK	OK	
3A-2-B.23	Verify the status of the following flags: BOARD STATUS OVT Alarm From O_1 CMD: ER1_N to O_8 CMD: CAB_R From O_1 Status: ER1_N to O_8 Status: CAB_R	 **NOK** OK ON **OFF**	 **NOK** OK ON **OFF**	
3A-2-B.24	Set the CAN BUS board address to 31	31	31	
3A-2-B.25	Select "CAN BUS I/F Side" to B	B	B	
3A-2-B.26	Click on Read All command in Digital Readout column	OK	OK	
3A-2-B.27	Verify the status of the following flags: BOARD STATUS OVT Alarm From O_1 CMD: ER1_N to O_8 CMD: CAB_R From O_1 Status: ER1_N to O_8 Status: CAB_R	 **NOK** OK ON **OFF**	 **NOK** OK ON **OFF**	
3A-2-B.28	Set OFF in the window All Outlets ON/OFF and push the relative "W" command	OK	OK	
3A-2-B.29	Set ON in the window All Outlets ON/OFF and push the relative "W" command	OK	OK	
3A-2-B.30	Click on Read All command in Digital Readout column	OK	OK	
3A-2-B.31	Verify the status of the following flags: BOARD STATUS OVT Alarm From O_1 CMD: ER1_N to O_8 CMD: CAB_R From O_1 Status: ER1_N to O_8 Status: CAB_R	 **OK** OK ON **ON**	 **OK** OK ON **ON**	
3A-2-B.32	Set the CAN BUS board address to 30	30	30	
3A-2-B.33	Select "CAN BUS I/F Side" to A	A	A	
3A-2-B.34	Click on Read All command in Digital Readout column	OK	OK	
3A-2-B.35	Verify the status of the following flags: BOARD STATUS	**OK**	**OK**	

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STEP n°	TEST SEQUENCE	EXPECTED VALUE	MEASURED VALUE	REMARKS
	OVT Alarm From O_1 CMD: ER1_N to O_8 CMD: CAB_R From O_1 Status: ER1_N to O_8 Status: CAB_R	OK ON **ON**	OK ON **ON**	
3A-2-B.36	Using board telemetries set to 2A current absorption all the outlets: From O_1: ER1_N to O_8: CAB_R	OK	OK	Set active loads to constant current mode. Set current on display with 100mA above the desired value with the exception of out8 that is correct.
3A-2-B.37	Push on Read All button in Analog Readout column	OK	OK	
3A-2-B.38	Verify the telemetries: O_1 Current: ER1_N O_2 Current: TPD2 O_3 Current: TPD6 O_4 Current: SPD3_N O_5 Current: MPD_N O_6 Current: UPD1 O_7 Current: SPD2_N O_8 Current: CAB_R Temperature Analog Ref. 3.0V	 2,000A±0,225A 2,000A±0,225A 2,000A±0,225A 2,000A±0,225A 2,000A±0,225A 2,000A±0,225A 2,000A±0,225A 2,00A±0,45A -40°C<T<80C° 3,000V±250mV	 2,144A 2,167A 2,077A 2,05A 2,064A 2,139A 2,129A 2,161A 25,75°C 2,946V	
3A-2-B.39	Set the CAN BUS board address to 31	31	31	
3A-2-B.40	Select "CAN BUS I/F Side" to B	B	B	
3A-2-B.41	Push on Read All button in Analog Readout column	OK	OK	
3A-2-B.42	Verify the telemetries: O_1 Current: ER1_N O_2 Current: TPD2 O_3 Current: TPD6 O_4 Current: SPD3_N O_5 Current: MPD_N O_6 Current: UPD1 O_7 Current: SPD2_N O_8 Current: CAB_R Temperature Analog Ref. 3.0V	 2,000A±0,225A 2,000A±0,225A 2,000A±0,225A 2,000A±0,225A 2,000A±0,225A 2,000A±0,225A 2,000A±0,225A 2,00A±0,45A -40°C<T<80C° 3,000V±250mV	 2,081A 2,17A 2,019A 2,146A 2,190A 2,137A 2,135A 2,199A 31,14°C 3,097V	
3A-2-B.43	Set to 0A current absorption all the outlets: From O_1: TPD3 to O_8: TTPD_R	OK	OK	
3A-2-B.44	Set OFF in the window All Outlets ON/OFF and push the relative "W" command	OK	OK	
3A-2-B.45	Click on Raed all to in Digital readout column	OK	OK	
3A-2-B.46	Verify from digital readout column that all outlets are OFF	OK	OK	

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10.3.2.5.7 PB2-3 SIDE B

STEP n°	TEST SEQUENCE	EXPECTED VALUE	MEASURED VALUE	REMARKS
PB2-3-B.1	Connect BI_120V and BI_120V_RTN power supply signals	OK	OK	
PB2-3-B.2	Verify that all the cables of the section are connected	OK	OK	
PB2-3-B.3	Launch the PDS controller software	Program open	Program open	
PB2-3-B.4	Set to "FM" the window Model	OK	OK	
PB2-3-B.5	Select "PDS Side" to B	B	B	
PB2-3-B.6	Set the CAN BUS board address to 31	31	31	
PB2-3-B.7	Select JMDC = 0	0	0	
PB2-3-B.8	Select TX = A	A	A	
PB2-3-B.9	Select RX = A	A	A	
PB2-3-B.10	Select "CAN BUS I/F Side" to B	B	B	
PB2-3-B.11	Set input bus voltage to 120V	120V±1V	120,1V	
PB2-3-B.12	Set input bus current limitation to ~~15A~~ 27,5A	27,5A ~~15A~~±1A	27,5A	See PVS-02
PB2-3-B.13	Enable power supply output	enabled	enabled	
PB2-3-B.14	Verify that green led of "power switch box" is lighted	Green led ligthed	Green led ligthed	
PB2-3-B.15	Switch ON the "power switch "of "power switch box"	Switch ON	Switch ON	
PB2-3-B.16	Verify that red led of "power switch box" is lighted	Red led ligthed	Red led ligthed	
PB2-3-B.17	Take note of power supply output current	1,1A±0,5A	1,1A	
PB2-3-B.18	Click on Run flash button	OK	OK	
PB2-3-B.19	Set the CAN BUS board address to 30	30	30	
PB2-3-B.20	Select "CAN BUS I/F Side" to A	A	A	
PB2-3-B.21	Click on Run flash button	OK	OK	
PB2-3-B.22	Set the CAN BUS board address to 31	31	31	
PB2-3-B.23	Select "CAN BUS I/F Side" to B	B	B	
PB2-3-B.24	Click on PB2-3 button	OK	OK	This board is default OFF
PB2-3-B.25	Set Digital I/F Test logic value = 1 in "Commanding" column	1	1	Button located on left side of software window
PB2-3-B.26	Click on letter "W" on the right of the "1" value	OK	OK	
PB2-3-B.27	Click on the command READ ALL under the column Digital Readout	OK	OK	
PB2-3-B.28	Verify that in the column Digital Readout under the voice Digital I/F Test appears "1"	1	1	
PB2-3-B.29	Set Digital I/F Test logic value = 0 in "Commanding" column	0	0	
PB2-3-B.30	Click on letter "W" on the right of the "0" value	OK	OK	
PB2-3-B.31	Click on the command READ ALL under the column Digital Readout	OK	OK	
PB2-3-B.32	Verify that in the column Digital Readout under the voice Digital I/F Test appears "0"	0	0	
PB2-3-B.33	Click on the command READ ALL under the column Digital Readout	OK	OK	
PB2-3-B.34	Verify the status of the following flags:			

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STEP n°	TEST SEQUENCE	EXPECTED VALUE	MEASURED VALUE	REMARKS
	BOARD STATUS OVT ALARM Input OVC Alarm DCDC ON/OFF 27V UV 29V Trip DCDC OFF/ON CMD	OK OK OK **OFF** OK OK **OFF**	OK OK OK **OFF** OK OK **OFF**	
PB2-3-B.35	Click on the command READ ALL under the column Analog Readout	OK	OK	
PB2-3-B.36	Verify the value of the following telemetries: Temperature Analog Ref. 2.0V	-40℃<T<80C° 2,000V±150mV	30,8℃ 2,054V	
PB2-3-B.37	Set the CAN BUS board address to 30	30	30	
PB2-3-B.38	Select "CAN BUS I/F Side" to A	A	A	
PB2-3-B.39	Click on the command READ ALL under the column Digital Readout	OK	OK	
PB2-3-B.40	Verify the status of the following flags: BOARD STATUS OVT ALARM Input OVC Alarm DCDC ON/OFF 27V UNV 29V Trip DCDC OFF/ON CMD	OK OK OK **OFF** OK OK **OFF**	OK OK OK **OFF** OK OK **OFF**	
PB2-3-B.41	Set ON on DCDC OFF/ON command window and send the command	OK	OK	Power cell ON
PB2-3-B.42	Click on the command READ ALL under the column Digital Readout	OK	OK	
PB2-3-B.43	Verify the status of the following flags: BOARD STATUS OVT ALARM Input OVC Alarm DCDC ON/OFF 27V UNV 29V Trip DCDC OFF/ON CMD	OK OK OK **ON** OK OK **ON**	OK OK OK **ON** OK OK **ON**	
PB2-3-B.44	Click on ESEM 3A-3 button	OK	OK	
PB2-3-B.45	Set ON in the window "O_1: TPD0" and push the relative "W" command	OK	OK	
PB2-3-B.46	Read on display the voltage on ESEM 3-A 3 out 1 (Check that load is not connected)	28,00V±1,00V	28,1V	V1
PB2-3-B.47	Click on PB2-3 button	OK	OK	
PB2-3-B.48	Click on the command READ ALL under the column Analog Readout	OK	OK	
PB2-3-B.49	Verify the value of the following telemetry:			Click on relative Rbutton

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6/08/2009	Albertin A.	Francini E.	

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UUT DATA : **Model** **PFM** **Item** **AMS02 POWER DISTRIBUTION SYSTEM** **C.I.** **PDS 18** **S/N** **FM01**

STEP n°	TEST SEQUENCE	EXPECTED VALUE	MEASURED VALUE	REMARKS
	Output Voltage	V1±1.092V	28,26V	
PB2-3-B.50	Set the CAN BUS board address to 31	31	31	
PB2-3-B.51	Select "CAN BUS I/F Side" to B	B	B	
PB2-3-B.52	Click on the command READ ALL under the column Digital Readout	OK	OK	
PB2-3-B.53	Verify the status of the following flags: BOARD STATUS OVT ALARM Input OVC Alarm DCDC ON/OFF 27V UNV 29V Trip DCDC OFF/ON CMD	 OK OK OK **ON** OK OK **ON**	 OK OK OK **ON** OK OK **ON**	

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10.3.2.5.8 ESEM 3A-3 SIDE B

STEP n°	TEST SEQUENCE	EXPECTED VALUE	MEASURED VALUE	REMARKS
3A-3-B.1	Click on ESEM3-A-3 button	OK	OK	Button located on left side of software window
3A-3-B.2	Connect to active loads outlet 1, 2, 3, 4, 5, 6, 7 and 8.	OK	OK	
3A-3-B.3	Verify that loads are set to 0A current absorption	OK	OK	
3A-3-B.4	Set Digital I/F Test logic value = 1 in "Commanding" column	1	1	
3A-3-B.5	Click on letter "W" on the right of the "1" value	OK	OK	
3A-3-B.6	Click on the command READ ALL under the column Digital Readout	OK	OK	
3A-3-B.7	Verify that in the column Digital Readout under the voice Digital I/F Test appears "1"	1	1	
3A-3-B.8	Set Digital I/F Test logic value = 0 in "Commanding" column	0	0	
3A-3-B.9	Click on letter "W" on the right of the "0" value	OK	OK	
3A-3-B.10	Click on the command READ ALL under the column Digital Readout	OK	OK	
3A-3-B.11	Verify that in the column Digital Readout under the voice Digital I/F Test appears "0"	0	0	
3A-3-B.12	Set ON in the window All Outlets ON/OFF and push the relative "W" command	OK	OK	
3A-3-B.13	Read on display the voltage on this ESEM 3-A loads: O_1: TPD0 O_2: TPD4 O_3: ER0_N O_4: MPD_R O_5: SPD3_R O_6: UGPD_R O_7: SPD2_R O_8: CAB_N	 28,00V±1,00V 28,00V±1,00V 28,00V±1,00V 28,00V±1,00V 28,00V±1,00V 28,00V±1,00V 28,00V±1,00V 28,00V±1,00V	 28V 28V 28V 28V 28V 28V 28V 28V	
3A-3-B.14	Click on Read All command in Digital Readout column	OK	OK	
3A-3-B.15	Verify the status of the following flags: BOARD STATUS OVT Alarm From O_1 CMD: TPD0 to O_8 CMD: CAB_N From O_1 Status: TPD0 to O_8 Status: CAB_N	 OK OK ON ON	 OK OK ON ON	
3A-3-B.16	Set the CAN BUS board address to 30	30	30	
3A-3-B.17	Select "CAN BUS I/F Side" to A	A	A	
3A-3-B.18	Click on Read All command in Digital Readout column	OK	OK	
3A-3-B.19	Verify the status of the following flags: BOARD STATUS OVT Alarm From O_1 CMD: TPD0 to O_8 CMD: CAB_N From O_1 Status: TPD0 to O_8 Status: CAB_N	 OK OK ON ON	 OK OK ON ON	

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UUT DATA : **Model** **PFM** **Item** **AMS02 POWER DISTRIBUTION SYSTEM** **C.I.** **PDS 18** **S/N** **FM01**

STEP n°	TEST SEQUENCE	EXPECTED VALUE	MEASURED VALUE	REMARKS
3A-3-B.20	Generate a short circuit on the passive load keyboards: From O_1: TPD0 to O_8: CAB_N	OK	OK	
3A-3-B.21	Read on display the voltage on this ESEM 3-A loads: O_1: TPD0 O_2: TPD4 O_3: ER0_N O_4: MPD_R O_5: SPD3_R O_6: UGPD_R O_7: SPD2_R O_8: CAB_N	 0,00V<V<1,00V 0,00V<V<1,00V 0,00V<V<1,00V 0,00V<V<1,00V 0,00V<V<1,00V 0,00V<V<1,00V 0,00V<V<1,00V 0,00V<V<1,00V	 0V 0V 0V 0V 0V 0V 0V 0V	
3A-3-B.22	Click on Read All command in Digital Readout column	OK	OK	
3A-3-B.23	Verify the status of the following flags: BOARD STATUS OVT Alarm From O_1 CMD: TPD0 to O_8 CMD: CAB_N From O_1 Status: TPD0 to O_8 Status: CAB_N	 **NOK** OK ON **OFF**	 **NOK** OK ON **OFF**	
3A-3-B.24	Set the CAN BUS board address to 31	31	31	
3A-3-B.25	Select "CAN BUS I/F Side" to B	B	B	
3A-3-B.26	Click on Read All command in Digital Readout column	OK	OK	
3A-3-B.27	Verify the status of the following flags: BOARD STATUS OVT Alarm From O_1 CMD: TPD0 to O_8 CMD: CAB_N From O_1 Status: TPD0 to O_8 Status: CAB_N	 **NOK** OK ON **OFF**	 **NOK** OK ON **OFF**	
3A-3-B.28	Set OFF in the window All Outlets ON/OFF and push the relative "W" command	OK	OK	
3A-3-B.29	Set ON in the window All Outlets ON/OFF and push the relative "W" command	OK	OK	
3A-3-B.30	Click on Read All command in Digital Readout column	OK	OK	
3A-3-B.31	Verify the status of the following flags: BOARD STATUS OVT Alarm From O_1 CMD: TPD0 to O_8 CMD: CAB_N From O_1 Status: TPD0 to O_8 Status: CAB_N	 **OK** OK ON **ON**	 **OK** OK ON **ON**	
3A-3-B.32	Set the CAN BUS board address to 30	30	30	
3A-3-B.33	Select "CAN BUS I/F Side" to A	A	A	
3A-3-B.34	Click on Read All command in Digital Readout column	OK	OK	
3A-3-B.35	Verify the status of the following flags: BOARD STATUS	**OK**	**OK**	

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STEP n°	TEST SEQUENCE	EXPECTED VALUE	MEASURED VALUE	REMARKS
	OVT Alarm From O_1 CMD: TPD0 to O_8 CMD: CAB_N From O_1 Status: TPD0 to O_8 Status: CAB_N	OK ON **ON**	OK ON **ON**	
3A-3-B.36	Using board telemetries set to 2A current absorption all the outlets: From O_1: TPD0 to O_8: CAB_N	OK	OK	Set active loads to constant current mode. Set current on display with 100mA above the desired value with the exception of out8 that is correct.
3A-3-B.37	Push on Read All button in Analog Readout column	OK	OK	
3A-3-B.38	Verify the telemetries: O_1 Current: TPD0 O_2 Current: TPD4 O_3 Current: ER0_N O_4 Current: MPD_R O_5 Current: SPD3_R O_6 Current: UGPD_R O_7 Current: SPD2_R O_8 Current: CAB_N Temperature Analog Ref. 3.0V	2,000A±0,225A 2,000A±0,225A 2,000A±0,225A 2,000A±0,225A 2,000A±0,225A 2,000A±0,225A 2,000A±0,225A 2,00A±0,45A -40℃<T<80C° 3,000V±250mV	2,091A 2,128A 2,07A 2,128A 2,121A 2,161A 2,156A 2,127A 29,34℃ 2,992V	
3A-3-B.39	Set the CAN BUS board address to 31	31	31	
3A-3-B.40	Select "CAN BUS I/F Side" to B	B	B	
3A-3-B.41	Push on Read All button in Analog Readout column	OK	OK	
3A-3-B.42	Verify the telemetries: O_1 Current: TPD0 O_2 Current: TPD4 O_3 Current: ER0_N O_4 Current: MPD_R O_5 Current: SPD3_R O_6 Current: UGPD_R O_7 Current: SPD2_R O_8 Current: CAB_N Temperature Analog Ref. 3.0V	2,000A±0,225A 2,000A±0,225A 2,000A±0,225A 2,000A±0,225A 2,000A±0,225A 2,000A±0,225A 2,000A±0,225A 2,00A±0,45A -40℃<T<80C° 3,000V±250mV	2,083A 2,118A 2,048A 2,096A 2,117A 2,18A 2,159A 2,105A 32,03℃ 2,986V	
3A-3-B.43	Set to 0A current absorption all the outlets: From O_1: TPD0 to O_8: CAB_N	OK	OK	
3A-3-B.44	Set OFF in the window All Outlets ON/OFF and push the relative "W" command	OK	OK	
3A-3-B.45	Click on Raed all to in Digital readout column	OK	OK	
3A-3-B.46	Verify from digital readout column that all outlets are OFF	OK	OK	

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10.3.2.5.9 PB2-4 SIDE B

STEP n°	TEST SEQUENCE	EXPECTED VALUE	MEASURED VALUE	REMARKS
PB2-4-B.1	Connect BI_120V and BI_120V_RTN power supply signals	OK	OK	
PB2-4-B.2	Verify that all the cables of the section are connected	OK	OK	
PB2-4-B.3	Launch the PDS controller software	Program open	Program open	
PB2-4-B.4	Set to "FM" the window Model	OK	OK	
PB2-4-B.5	Select "PDS Side" to B	B	B	
PB2-4-B.6	Set the CAN BUS board address to 31	31	31	
PB2-4-B.7	Select JMDC = 0	0	0	
PB2-4-B.8	Select TX = A	A	A	
PB2-4-B.9	Select RX = A	A	A	
PB2-4-B.10	Select "CAN BUS I/F Side" to B	B	B	
PB2-4-B.11	Set input bus voltage to 120V	120V±1V	120V	
PB2-4-B.12	Set input bus current limitation to ~~15A~~ 27,5A	27,5A ~~15A~~±1A	27,5A	See PVS-02
PB2-4-B.13	Enable power supply output	enabled	enabled	
PB2-4-B.14	Verify that green led of "power switch box" is lighted	Green led ligthed	Green led ligthed	
PB2-4-B.15	Switch ON the "power switch "of "power switch box"	Switch ON	Switch ON	
PB2-4-B.16	Verify that red led of "power switch box" is lighted	Red led ligthed	Red led ligthed	
PB2-4-B.17	Take note of power supply output current	1,6A±0,5A	1,1A	
PB2-4-B.18	Click on Run flash button	OK	OK	
PB2-4-B.19	Set the CAN BUS board address to 30	30	30	
PB2-4-B.20	Select "CAN BUS I/F Side" to A	A	A	
PB2-4-B.21	Click on Run flash button	OK	OK	
PB2-4-B.22	Set the CAN BUS board address to 31	31	31	
PB2-4-B.23	Select "CAN BUS I/F Side" to B	B	B	
PB2-4-B.24	Click on PB2-4 button	OK	OK	This board is default ON
PB2-4-B.25	Set Digital I/F Test logic value = 1 in "Commanding" column	1	1	Button located on left side of software window
PB2-4-B.26	Click on letter "W" on the right of the "1" value	OK	OK	
PB2-4-B.27	Click on the command READ ALL under the column Digital Readout	OK	OK	
PB2-4-B.28	Verify that in the column Digital Readout under the voice Digital I/F Test appears "1"	1	1	
PB2-4-B.29	Set Digital I/F Test logic value = 0 in "Commanding" column	0	0	
PB2-4-B.30	Click on letter "W" on the right of the "0" value	OK	OK	
PB2-4-B.31	Click on the command READ ALL under the column Digital Readout	OK	OK	
PB2-4-B.32	Verify that in the column Digital Readout under the voice Digital I/F Test appears "0"	0	0	
PB2-4-B.33	Click on the command READ ALL under the column Analog Readout	OK	OK	

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STEP n°	TEST SEQUENCE	EXPECTED VALUE	MEASURED VALUE	REMARKS
PB2-4-B.34	Verify the status of the following flags: BOARD STATUS OVT ALARM Input OVC Alarm DCDC ON/OFF 27V UV 29V Trip DCDC OFF/ON CMD	 OK OK OK **ON** OK OK **ON**	 OK OK OK **ON** OK OK **ON**	
PB2-4-B.35	Click on the command READ ALL under the column Analog Readout	OK	OK	
PB2-4-B.36	Verify the value of the following telemetries: Temperature Analog Ref. 2.0V	 N.A. ~~-40°C<T<80C°~~ N.A. ~~2,000V±150mV~~	 N.A. N.A.	See PVS-05
PB2-4-B.37	Read on display the voltage on ESEM 3A-4 out 1 (Check that load is not connected)	28,00V±1,00V	28,1V	V1
PB2-4-B.38	Verify the value of the following telemetry: Output Voltage	V1±1.092V	28,26V	Click on relative Rbutton
PB2-4-B.39	Set OFF on DCDC ON /OFF command window and send the command	OK	OK	Power cell OFF
PB2-4-B.40	Click on the command READ ALL under the column Digital Readout	OK	OK	
PB2-4-B.41	Verify the status of the following flags: BOARD STATUS OVT ALARM Input OVC Alarm DCDC ON/OFF 27V UNV 29V Trip DCDC OFF/ON CMD	 OK OK OK **OFF** OK OK **OFF**	 OK OK OK **OFF** OK OK **OFF**	
PB2-4-B.42	Click on the command READ ALL under the column Analog Readout	OK	OK	
PB2-4-B.43	Verify the value of the following telemetries: Temperature Analog Ref. 2.0V	 -40°C<T<80C° 2,000V±150mV	 40,02°C 2,064V	
PB2-4-B.44	Verify the following analog monitor: Output Voltage	0,00V±1.092V	0,015V	
PB2-4-B.45	Read on display the voltage on ESEM 3A-4 out 1 (Check that load is not connected)	0,00V±0,10V	0V	
PB2-4-B.46	Set the CAN BUS board address to 30	30	30	
PB2-4-B.47	Select "CAN BUS I/F Side" to A	A	A	
PB2-4-B.48	Click on the command READ ALL under the column Digital Readout	OK	OK	
PB2-4-B.49	Verify the status of the following flags: BOARD STATUS OVT ALARM	 OK OK	 OK OK	

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STEP n°	TEST SEQUENCE	EXPECTED VALUE	MEASURED VALUE	REMARKS
	Input OVC Alarm	OK	OK	
	DCDC ON/OFF	**OFF**	**OFF**	
	27V UNV	OK	OK	
	29V Trip	OK	OK	
	DCDC OFF/ON CMD	**OFF**	**OFF**	
PB2-4-B.50	Set ON on DCDC OFF/ON command window and send the command	OK	OK	Power cell ON
PB2-4-B.51	Click on the command READ ALL under the column Digital Readout	OK	OK	
PB2-4-B.52	Verify the status of the following flags:			
	BOARD STATUS	OK	OK	
	OVT ALARM	OK	OK	
	Input OVC Alarm	OK	OK	
	DCDC ON/OFF	**ON**	**ON**	
	27V UNV	OK	OK	
	29V Trip	OK	OK	
	DCDC OFF/ON CMD	**ON**	**ON**	
PB2-4-B.53	Read on display the voltage on ESEM 3A-4 out 1 (Check that load is not connected)	28,00V±1,00V	28,1V	
PB2-4-B.54	Set the CAN BUS board address to 31	31	31	
PB2-4-B.55	Select "CAN BUS I/F Side" to B	B	B	
PB2-4-B.56	Click on the command READ ALL under the column Digital Readout	OK	OK	
PB2-4-B.57	Verify the status of the following flags:			
	BOARD STATUS	OK	OK	
	OVT ALARM	OK	OK	
	Input OVC Alarm	OK	OK	
	DCDC ON/OFF	**ON**	**ON**	
	27V UNV	OK	OK	
	29V Trip	OK	OK	
	DCDC OFF/ON CMD	**ON**	**ON**	

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STEP n°	TEST SEQUENCE	EXPECTED VALUE	MEASURED VALUE	REMARKS

10.3.2.5.10 ESEM 3A-4 SIDE B

3A-4-B.1	Click on ESEM 3A-4 button	OK	OK	Button located on left side of software window
3A-4-B.2	Connect to active loads outlet 1, 2, 3, 4, 5, 6, 7 and 8.	OK	OK	
3A-4-B.3	Verify that loads are set to 0A current absorption	OK	OK	
3A-4-B.4	Set Digital I/F Test logic value = 1 in "Commanding" column	1	1	
3A-4-B.5	Click on letter "W" on the right of the "1" value	OK	OK	
3A-4-B.6	Click on the command READ ALL under the column Digital Readout	OK	OK	
3A-4-B.7	Verify that in the column Digital Readout under the voice Digital I/F Test appears "1"	1	1	
3A-4-B.8	Set Digital I/F Test logic value = 0 in "Commanding" column	0	0	
3A-4-B.9	Click on letter "W" on the right of the "0" value	OK	OK	
3A-4-B.10	Click on the command READ ALL under the column Digital Readout	OK	OK	
3A-4-B.11	Verify that in the column Digital Readout under the voice Digital I/F Test appears "0"	0	0	
3A-4-B.12	Set ON in the window All Outlets ON/OFF and push the relative "W" command	OK	OK	
3A-4-B.13	Read on display the voltage on this ESEM 3-A loads: O_1: JPD_R O_2: ER1_R O_3: SPD1_R O_4: ER0_R O_5: UPD0 O_6: SPD0_N O_7: TPD5 O_8: TTPD_N	 28,00V±1,00V 28,00V±1,00V 28,00V±1,00V 28,00V±1,00V 28,00V±1,00V 28,00V±1,00V 28,00V±1,00V 28,00V±1,00V	 28V 28V 28V 28V 28V 28V 28V 28V	
3A-4-B.14	Click on Read All command in Digital Readout column	OK	OK	
3A-4-B.15	Verify the status of the following flags: BOARD STATUS OVT Alarm From O_1 CMD: JPD_R to O_8 CMD: TTPD_N From O_1 Status: JPD_R to O_8 Status: TTPD_N	 OK OK ON ON	 OK OK ON ON	
3A-4-B.16	Set the CAN BUS board address to 30	30	30	
3A-4-B.17	Select "CAN BUS I/F Side" to A	A	A	
3A-4-B.18	Click on Read All command in Digital Readout column	OK	OK	
3A-4-B.19	Verify the status of the following flags: BOARD STATUS OVT Alarm From O_1 CMD: JPD_R to O_8 CMD: TTPD_N From O_1 Status: JPD_R to O_8 Status: TTPD_N	 OK OK ON ON	 OK OK ON ON	

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STEP n°	TEST SEQUENCE	EXPECTED VALUE	MEASURED VALUE	REMARKS
3A-4-B.20	Generate a short circuit on the passive load keyboards: From O_1: JPD_R to O_8: TTPD_N	OK	Ok	
3A-4-B.21	Read on display the voltage on this ESEM 3-A loads: O_1: TPD0 O_2: TPD4 O_3: ER0_N O_4: MPD_R O_5: SPD3_R O_6: UGPD_R O_7: SPD2_R O_8: CAB_N	 0,00V<V<1,00V 0,00V<V<1,00V 0,00V<V<1,00V 0,00V<V<1,00V 0,00V<V<1,00V 0,00V<V<1,00V 0,00V<V<1,00V 0,00V<V<1,00V	 0V 0V 0V 0V 0V 0V 0V 0V	
3A-4-B.22	Click on Read All command in Digital Readout column	OK	OK	
3A-4-B.23	Verify the status of the following flags: BOARD STATUS OVT Alarm From O_1 CMD: JPD_R to O_8 CMD: TTPD_N From O_1 Status: JPD_R to O_8 Status: TTPD_N	 **NOK** OK ON **OFF**	 **NOK** OK ON **OFF**	
3A-4-B.24	Set the CAN BUS board address to 31	31	31	
3A-4-B.25	Select "CAN BUS I/F Side" to B	B	B	
3A-4-B.26	Click on Read All command in Digital Readout column	OK	OK	
3A-4-B.27	Verify the status of the following flags: BOARD STATUS OVT Alarm From O_1 CMD: JPD_R to O_8 CMD: TTPD_N From O_1 Status: JPD_R to O_8 Status: TTPD_N	 **NOK** OK ON **OFF**	 **NOK** OK ON **OFF**	
3A-4-B.28	Set OFF in the window All Outlets ON/OFF and push the relative "W" command	OK	OK	
3A-4-B.29	Set ON in the window All Outlets ON/OFF and push the relative "W" command	OK	OK	
3A-4-B.30	Click on Read All command in Digital Readout column	OK	OK	
3A-4-B.31	Verify the status of the following flags: BOARD STATUS OVT Alarm From O_1 CMD: JPD_R to O_8 CMD: TTPD_N From O_1 Status: JPD_R to O_8 Status: TTPD_N	 **OK** OK ON **ON**	 **OK** OK ON **ON**	
3A-4-B.32	Set the CAN BUS board address to 30	30	30	
3A-4-B.33	Select "CAN BUS I/F Side" to A	A	A	
3A-4-B.34	Click on Read All command in Digital Readout column	OK	OK	
3A-4-B.35	Verify the status of the following flags: BOARD STATUS	**OK**	**OK**	

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STEP n°	TEST SEQUENCE	EXPECTED VALUE	MEASURED VALUE	REMARKS
	OVT Alarm From O_1 CMD: JPD_R to O_8 CMD: TTPD_N From O_1 Status: JPD_R to O_8 Status: TTPD_N	OK ON **ON**	OK ON **ON**	
3A-4-B.36	Using board telemetries set to 2A current absorption all the outlets: From O_1: JPD_R to O_8: TTPD_N	OK	OK	Set active loads to constant current mode. Set current on display with 100mA above the desired value with the exception of out8 that is correct.
3A-4-B.37	Push on Read All button in Analog Readout column	OK	OK	
3A-4-B.38	Verify the telemetries: O_1 Current: JPD_R O_2 Current: ER1_R O_3 Current: SPD1_R O_4 Current: ER0_R O_5 Current: UPD0 O_6 Current: SPD0_N O_7 Current: TPD5 O_8 Current: TTPD_N Temperature Analog Ref. 3.0VTemperature Analog Ref. 3.0V	2,000A±0,225A 2,000A±0,225A 2,000A±0,225A 2,000A±0,225A 2,000A±0,225A 2,000A±0,225A 2,000A±0,225A 2,00A±0,45A -40℃<T<80C° 3,000V±250mV	2,069A 2,13A 2,073A 2,036A 2,103A 2,129A 2,211A 2,084A 33,08℃ 2,92V	
3A-4-B.39	Set the CAN BUS board address to 31	31	31	
3A-4-B.40	Select "CAN BUS I/F Side" to B	B	B	
3A-4-B.41	Push on Read All button in Analog Readout column	OK	OK	
3A-4-B.42	Verify the current telemetries: O_1 Current: JPD_R O_2 Current: ER1_R O_3 Current: SPD1_R O_4 Current: ER0_R O_5 Current: UPD0 O_6 Current: SPD0_N O_7 Current: TPD5 O_8 Current: TTPD_N Temperature Analog Ref. 3.0V	2,000A±0,225A 2,000A±0,225A 2,000A±0,225A 2,000A±0,225A 2,000A±0,225A 2,000A±0,225A 2,000A±0,225A 2,00A±0,45A -40℃<T<80C° 3,000V±250mV	1,967A 1,98A 2,174A 2,064A 2,101A 2,142A 2,173A 2,121A 35,2℃ 2,882V	
3A-4-B.43	Set to 0A current absorption all the outlets: From O_1: JPD_R to O_8: TTPD_N	OK	OK	
3A-4-B.44	Set OFF in the window All Outlets ON/OFF and push the relative "W" command	OK	OK	
3A-4-B.45	Click on Raed all to in Digital readout column	OK	OK	

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STEP n°	TEST SEQUENCE	EXPECTED VALUE	MEASURED VALUE	REMARKS
3A-4-B.46	Verify from digital readout column that all outlets are OFF	OK	OK	
3A-4-B.47	Switch OFF the "power switch "of "power switch box"	OFF	OFF	See PVS-06

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STEP n°	TEST SEQUENCE	EXPECTED VALUE	MEASURED VALUE	REMARKS

10.3.2.5.11 ESEM 3-B SIDE B

3B-B.1	Connect all the loads. The following column resumes the currents (with Main bus equal to 120V):	OK	OK	There is no need to check the current absorption of the loads. CCS load not connected
3B-B.2	Set all the loads of the other boards to 0A	OK	OK	
3B-B.3	Set power supply voltage to 120V	120V ± 0.2V	120V	
3B-B.4	Set power supply current limitation to 27.5A	27.5A±0.5A	27.5A	
3B-B.5	Switch ON the **"power switch "**of **"power switch box"**	OK	OK	
3B-B.6	Take note of input current	7,9A±0,5A	7,8A	
3B-B.7	Select PDS controller software	program open	program open	
3B-B.8	Set the CAN BUS board address to 31	31	31	
3B-B.9	Select JMDC = 0	0	0	
3B-B.10	Select TX = A	A	A	
3B-B.11	Select RX = A	A	A	
3B-B.12	Select "CAN BUS I/F Side" to B	B	B	
3B-B.13	Select "PDS Side" to B	B	B	
3B-B.14	Click on Run flash command	OK	OK	
3B-B.15	Click on ESEM3-B button	OK	OK	Button located on left side of PDS controller software window
3B-B.16	Set Digital I/F Test logic value = 1 in "Commanding" column	1	1	
3B-B.17	Click on letter "W" on the right of the "1" value	OK	OK	
3B-B.18	Click on the command READ ALL under the column Digital Readout	OK	OK	

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OUTLET	CURRENT [A] SET
1	1,200±100mA
2	3,200±100mA
3	1,200±100mA
4	1,200±100mA
5	2,400±100mA
6	1,200±100mA
7	1,200±100mA
8	1,200±100mA
9	1,200±100mA
10	1,200±100mA
11	1,200±100mA
12	3,520±100mA

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STEP n°	TEST SEQUENCE	EXPECTED VALUE	MEASURED VALUE	REMARKS
3B-B.19	Verify that in the column Digital Readout under the voice Digital I/F Test appears "1"	1	1	
3B-B.20	Set Digital I/F Test logic value = 0 in "Commanding" column	0	0	
3B-B.21	Click on letter "W" on the right of the "0" value	OK	OK	
3B-B.22	Click on the command READ ALL under the column Digital Readout	OK	OK	
3B-B.23	Verify that in the column Digital Readout under the voice Digital I/F Test appears "0"	0	0	
3B-B.24	Verify the status of the following flags: BOARD STATUS OVT Alarm O__1 CMD: AH_OUT1 O__2 CMD: AH_OUT2 O__3 CMD: AH_OUT3 O__4 CMD: AH_OUT4 O__5 CMD: AH_OUT5 O__6 CMD: AH_OUT6 O__7 CMD: AH_OUT7 O__8 CMD: AH_OUT8 O__9 CMD: AH_OUT9 O_10 CMD: AH_OUT10 O_11 CMD: AH_OUT11 O_12 CMD: AO_CCEB O__1 Status: AH_OUT1 O__2 Status: AH_OUT2 O__3 Status: AH_OUT3 O__4 Status: AH_OUT4 O__5 Status : AH_OUT5 O__6 Status: AH_OUT6 O__7 Status: AH_OUT7 O__8 Status: AH_OUT8 O__9 Status: AH_OUT9 O_10 Status: AH_OUT10 O_11 Status: AH_OUT11 O_12 Status: AO_CCEB O_12 Trip: AO_CCEB	 OK OK **ON** **ON** **ON** OFF OFF **ON** OFF OFF OFF OFF OFF OFF **ON** **ON** **ON** OFF OFF **ON** OFF OFF OFF OFF OFF OFF OK	 OK OK **ON** **ON** **ON** OFF OFF **ON** OFF OFF OFF OFF OFF OFF **ON** **ON** **ON** OFF OFF **ON** OFF OFF OFF OFF OFF OFF OK	
3B-B.25	Push on Read All button in Analog Readout column	OK	OK	
3B-B.26	Take note of the following values in "Analog readout" column: Temperature O_12 Current: AO_CCEB Analog Ref. 2.5V	 -40℃<T<80C° 0,00A±0,45A 2,500V±150mV	 28,49℃ 0,135A 2,503V	
3B-B.27	Set the CAN BUS board address to 30	30	30	

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STEP n°	TEST SEQUENCE	EXPECTED VALUE	MEASURED VALUE	REMARKS
3B-B.28	Select "CAN BUS I/F Side" to A	A	A	
3B-B.29	Click on Run flash button	OK	OK	
3B-B.30	Click on Read All command in Digital Readout column	OK	OK	
3B-B.31	Verify the status of the following flags:			
	BOARD STATUS	OK	OK	
	OVT Alarm	OK	OK	
	O__1 CMD: AH_OUT1	**ON**	**ON**	
	O__2 CMD: AH_OUT2	**ON**	**ON**	
	O__3 CMD: AH_OUT3	**ON**	**ON**	
	O__4 CMD: AH_OUT4	OFF	OFF	
	O__5 CMD: AH_OUT5	OFF	OFF	
	O__6 CMD: AH_OUT6	**ON**	**ON**	
	O__7 CMD: AH_OUT7	OFF	OFF	
	O__8 CMD: AH_OUT8	OFF	OFF	
	O__9 CMD: AH_OUT9	OFF	OFF	
	O_10 CMD: AH_OUT10	OFF	OFF	
	O_11 CMD: AH_OUT11	OFF	OFF	
	O_12 CMD: AO_CCEB	OFF	OFF	
	O__1 Status: AH_OUT1	**ON**	**ON**	
	O__2 Status: AH_OUT2	**ON**	**ON**	
	O__3 Status: AH_OUT3	**ON**	**ON**	
	O__4 Status: AH_OUT4	OFF	OFF	
	O__5 Status : AH_OUT5	OFF	OFF	
	O__6 Status: AH_OUT6	**ON**	**ON**	
	O__7 Status: AH_OUT7	OFF	OFF	
	O__8 Status: AH_OUT8	OFF	OFF	
	O__9 Status: AH_OUT9	OFF	OFF	
	O_10 Status: AH_OUT10	OFF	OFF	
	O_11 Status: AH_OUT11	OFF	OFF	
	O_12 Status: AO_CCEB	OFF	OFF	
	O_12 Trip: AO_CCEB	OK	OK	
3B-B.32	Push on Read All button in Analog Readout column	OK	OK	
3B-B.33	Take note of the following values in "Analog readout" column:			
	Temperature	-40℃<T<80C°	29,04℃	
	O_12 Current: AO_CCEB	0,00A±0,45A	0,15A	
	Analog Ref. 2.5V	2,500V±150mV	2,51V	
3B-B.34	Set OFF in the window All Outlets ON/OFF and push the relative "W" command	OK	OK	
3B-B.35	Click on the command READ ALL under the column Digital Readout	OK	OK	
3B-B.36	Verify the status of the following flags:			

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STEP n°	TEST SEQUENCE	EXPECTED VALUE	MEASURED VALUE	REMARKS
	BOARD STATUS	OK	OK	
	OVT Alarm	OK	OK	
	From O__1 CMD: AH_OUT1 to O_11 CMD: AH_OUT11	OFF	OFF	
	O_12 CMD: AO_CCEB	OFF	OFF	
	From O__1 Status: AH_OUT1 to O_11 Status: AH_OUT11	OFF	OFF	
	O_12 Status: AO_CCEB	OFF	OFF	
	O_12 Trip: AO_CCEB	OK	OK	
3B-B.37	Set the CAN BUS board address to 31	31	31	
3B-B.38	Select "CAN BUS I/F Side" to B	B	B	
3B-B.39	Click on the command READ ALL under the column Digital Readout	OK	OK	
3B-B.40	Verify the status of the following flags:			
	BOARD STATUS	OK	OK	
	OVT Alarm	OK	OK	
	From O__1 CMD: AH_OUT1 to O_11 CMD: AH_OUT11	OFF	OFF	
	O_12 CMD: AO_CCEB	OFF	OFF	
	From O__1 Status: AH_OUT1 to O_11 Status: AH_OUT11	OFF	OFF	
	O_12 Status: AO_CCEB	OFF	OFF	
	O_12 Trip: AO_CCEB	OK	OK	
3B-B.41	Verify with a multimeter the voltage of the outlets:			
	AH_OUT1	V<5,00V	0V	
	AH_OUT2	V<5,00V	0V	
	AH_OUT3	V<5,00V	0V	
	AH_OUT4	V<5,00V	0V	
	AH_OUT5	V<5,00V	0V	
	AH_OUT6	V<5,00V	0V	
	AH_OUT7	V<5,00V	0V	
	AH_OUT8	V<5,00V	0V	
	AH_OUT9	V<5,00V	0V	
	AH_OUT10	V<5,00V	0V	
	AH_OUT11	V<5,00V	0V	
	AO_CCEB	V<5,00V	0V	
3B-B.42	Set ON in the window All Outlets ON/OFF and push the relative "W" command	OK	OK	
3B-B.43	Take note of input current	21A±1A	20,3A	
3B-B.44	Click on the command READ ALL under the column Digital Readout	OK	OK	
3B-B.45	Verify the status of the following flags:			
	BOARD STATUS	OK	OK	
	OVT Alarm	OK	OK	
	From O__1 CMD: AH_OUT1 to O_11 CMD: AH_OUT11	ON	ON	
	O_12 CMD: AO_CCEB	ON	ON	

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STEP n°	TEST SEQUENCE	EXPECTED VALUE	MEASURED VALUE	REMARKS
	From O__1 Status: AH_OUT1 to O_11 Status: AH_OUT11 O_12 Status: AO_CCEB O_12 Trip: AO_CCEB	ON ON OK	ON ON OK	
3B-B.46	Set the CAN BUS board address to 30	30	30	
3B-B.47	Select "CAN BUS I/F Side" to A	A	A	
3B-B.48	Click on the command READ ALL under the column Digital Readout	OK	OK	
3B-B.49	Verify the status of the following flags: BOARD STATUS OVT Alarm From O__1 CMD: AH_OUT1 to O_11 CMD: AH_OUT11 O_12 CMD: AO_CCEB From O__1 Status: AH_OUT1 to O_11 Status: AH_OUT11 O_12 Status: AO_CCEB O_12 Trip: AO_CCEB	OK OK ON ON ON ON OK	OK OK ON ON ON ON OK	
3B-B.50	Set the CAN BUS board address to 31	31	31	
3B-B.51	Select "CAN BUS I/F Side" to B	B	B	
3B-B.52	Measure the PDS input voltage: connect a multimeter between PIN "bypass thermal interlock" (positive) and "PRI_GND"(negative) on side A of the J300 test box	117,50V±1,00V	117,35V	See PVS-08
3B-B.53	Verify with a multimeter the voltage of the outlets: AH_OUT1 AH_OUT2 AH_OUT3 AH_OUT4 AH_OUT5 AH_OUT6 AH_OUT7 AH_OUT8 AH_OUT9 AH_OUT10 AH_OUT11 AO_CCEB	115V ~~117V~~<V<120,00V 115V ~~117V~~<V<120,00V 115V ~~117V~~<V<120,00V 115V ~~117V~~<V<120,00V 115V ~~117V~~<V<120,00V 115V ~~117V~~<V<120,00V 115V ~~117V~~<V<120,00V 115V ~~117V~~<V<120,00V 115V ~~117V~~<V<120,00V 115V ~~117V~~<V<120,00V 115V ~~117V~~<V<120,00V 115V ~~117V~~<V<120,00V	115,6V 115,7V 115,6V 115,5V 115,5V 115,5V 115,5V 115,6V 115,6V 115,6V 115,5V 116,3V	Measurement on the load See PVS-09
3B-B.54	Set OFF the command All Outlets ON/OFF in commanding column and click on relative "W"	OK	OK	
3B-B.55	Connect the short circuit simulator in parallel to outlet 12	OK	OK	
3B-B.56	Set the short circuit simulator to 10ms short circuit duration	OK	OK	
3B-B.57	Set "ON" in the window "O_12:AO_CCEB" and push the relative "W" command	OK	OK	
3B-B.58	Create the short circuit	OK	OK	
3B-B.59	Click on the command READ ALL under the column Digital Readout	OK	OK	
3B-B.60	Verify the status of the following flags:	NOK	NOK	

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STEP n°	TEST SEQUENCE	EXPECTED VALUE	MEASURED VALUE	REMARKS
	BOARD STATUS OVT Alarm From O__1 Status: AH_OUT1 to O_11 Status: AH_OUT11 O_12 Status: AO_CCEB O_12 Trip: AO_CCEB	OK ON ON OFF TRIP	OK ON ON OFF TRIP	
3B-B.61	Set the CAN BUS board address to 30	30	30	
3B-B.62	Select "CAN BUS I/F Side" to A	A	A	
3B-B.63	Click on the command READ ALL under the column Digital Readout	OK	OK	
3B-B.64	Verify the status of the following flags: BOARD STATUS OVT Alarm From O__1 Status: AH_OUT1 to O_11 Status: AH_OUT11 O_12 Status: AO_CCEB O_12 Trip: AO_CCEB	NOK OK ON ON OFF TRIP	NOK OK ON ON OFF TRIP	
3B-B.65	Set the CAN BUS board address to 31	31	31	
3B-B.66	Select "CAN BUS I/F Side" to B	B	B	
3B-B.67	Disconnect short circuit simulator	OK	OK	
3B-B.68	Set OFF the command O_12:AO_CCEB in commanding column and click on relative "W"	OK	OK	Protection reset
3B-B.69	Set ON the command O_12:AO_CCEB in commanding column and click on relative "W"	OK	OK	
3B-B.70	Click on the command READ ALL under the column Digital Readout	OK	OK	
3B-B.71	Verify the status of the following flags: BOARD STATUS O_12 Status: AO_CCEB O_12 Trip: AO_CCEB	OK ON OK	OK ON OK	
3B-B.72	Set the CAN BUS board address to 30	30	30	
3B-B.73	Select "CAN BUS I/F Side" to A	A	A	
3B-B.74	Click on the command READ ALL under the column Digital Readout	OK	OK	
3B-B.75	Verify the status of the following flags: BOARD STATUS O_12 Status: AO_CCEB O_12 Trip: AO_CCEB	OK ON OK	OK ON OK	
3B-B.76	Set the CAN BUS board address to 31	31	31	
3B-B.77	Select "CAN BUS I/F Side" to B	B	B	
3B-B.78	Set OFF the command All Outlets ON/OFF in commanding column and click on relative "W"	OK	OK	
3B-B.79	Switch OFF main power bus	OK	OK	
3B-B.80	Disconnect current probe	OK	OK	
3B-B.81	Switch OFF the "power switch "of "power switch box"	Switch OFF	Switch OFF	

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STEP n°	TEST SEQUENCE	EXPECTED VALUE	MEASURED VALUE	REMARKS

10.3.2.6 SIDE B TELEMETRY VERIFICATION

10.3.2.6.1 INPUT STAGE CURRENT MONITOR

IBUS-B.1	Connect all the ESEM3B loads. The following column resumes the currents (with Main bus equal to 120V):	OK	OK	There is no need to check the current absorption of the loads. CCS load not connected
IBUS-B.2	Set all the loads of the other boards to 0A	OK	OK	
IBUS-B.3	Set power supply voltage to 120V	120V ± 0.2V	120V	
IBUS-B.4	Set power supply current limitation to 27.5A	27.5A±0.5A	27.5A	
IBUS-B.5	Switch ON the **"power switch "of "power switch box"**	OK	OK	
IBUS-B.6	Take note of input current	7,9A±0,5A	7,8A	
IBUS-B.7	Select PDS controller software	program open	program open	
IBUS-B.8	Set the CAN BUS board address to 31	31	31	
IBUS-B.9	Select JMDC = 0	0	0	
IBUS-B.10	Select TX = A	A	A	
IBUS-B.11	Select RX = A	A	A	
IBUS-B.12	Select "CAN BUS I/F Side" to B	B	B	
IBUS-B.13	Select "PDS Side" to B	B	B	
IBUS-B.14	Click on Run flash command	OK	OK	
IBUS-B.15	Set the CAN BUS board address to 30	30	30	

OUTLET	CURRENT [A] SET
1	1,200±100mA
2	3,200±100mA
3	1,200±100mA
4	1,200±100mA
5	2,400±100mA
6	1,200±100mA
7	1,200±100mA
8	1,200±100mA
9	1,200±100mA
10	1,200±100mA
11	1,200±100mA
12	3,520±100mA

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STEP n°	TEST SEQUENCE	EXPECTED VALUE	MEASURED VALUE	REMARKS
IBUS-B.16	Select "CAN BUS I/F Side" to A	A	A	
IBUS-B.17	Click on Run flash command	OK	OK	
IBUS-B.18	Set the CAN BUS board address to 31	31	31	
IBUS-B.19	Select "CAN BUS I/F Side" to B	B	B	
IBUS-B.20	Click on ESEM3-B button	OK	OK	Button located on left side of PDS controller software window
IBUS-B.21	Verify the status of the following flags:			
	BOARD STATUS	OK	OK	
	OVT Alarm	OK	OK	
	O__1 CMD: AH_OUT1	**ON**	**ON**	
	O__2 CMD: AH_OUT2	**ON**	**ON**	
	O__3 CMD: AH_OUT3	**ON**	**ON**	
	O__4 CMD: AH_OUT4	OFF	OFF	
	O__5 CMD: AH_OUT5	OFF	OFF	
	O__6 CMD: AH_OUT6	**ON**	**ON**	
	O__7 CMD: AH_OUT7	OFF	OFF	
	O__8 CMD: AH_OUT8	OFF	OFF	
	O__9 CMD: AH_OUT9	OFF	OFF	
	O_10 CMD: AH_OUT10	OFF	OFF	
	O_11 CMD: AH_OUT11	OFF	OFF	
	O_12 CMD: AO_CCEB	OFF	OFF	
	O__1 Status: AH_OUT1	**ON**	**ON**	
	O__2 Status: AH_OUT2	**ON**	**ON**	
	O__3 Status: AH_OUT3	**ON**	**ON**	
	O__4 Status: AH_OUT4	OFF	OFF	
	O__5 Status : AH_OUT5	OFF	OFF	
	O__6 Status: AH_OUT6	**ON**	**ON**	
	O__7 Status: AH_OUT7	OFF	OFF	
	O__8 Status: AH_OUT8	OFF	OFF	
	O__9 Status: AH_OUT9	OFF	OFF	
	O_10 Status: AH_OUT10	OFF	OFF	
	O_11 Status: AH_OUT11	OFF	OFF	
	O_12 Status: AO_CCEB	OFF	OFF	
	O_12 Trip: AO_CCEB	OK	OK	
IBUS-B.22	Push on Read All button in Analog Readout column	OK	OK	
IBUS-B.23	Take note of the following values in "Analog readout" column:			
	Temperature	-40℃<T<80C°	29,29℃	
	O_12 Current: AO_CCEB	0,00A±0,45A	0,135A	
	Analog Ref. 2.5V	2,500V±150mV	2,5V	

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STEP n°	TEST SEQUENCE	EXPECTED VALUE	MEASURED VALUE	REMARKS
IBUS-B.24	Set OFF in the window All Outlets ON/OFF and push the relative "W" command	OK	OK	
IBUS-B.25	Take note of input current	1.1A±0.2A	1,1A	
IBUS-B.26	Click on the command READ ALL under the column Digital Readout	OK	OK	
IBUS-B.27	Verify the status of the following flags: BOARD STATUS OVT Alarm From O__1 CMD: AH_OUT1 to O_11 CMD: AH_OUT11 O_12 CMD: AO_CCEB From O__1 Status: AH_OUT1 to O_11 Status: AH_OUT11 O_12 Status: AO_CCEB O_12 Trip: AO_CCEB	OK OK OFF OFF OFF OFF OK	OK OK OFF OFF OFF OFF OK	
IBUS-B.28	Fill the table at the end of paragraph	OK	OK	
IBUS-B.29	To switch ON the loads Set "ON" in the window "O_x: AH_OUTx" and push the relative "W" command	OK	OK	
IBUS-B.30	To read telemetries change from CAN BUS 30 to CAN BUS 31 using the following parameters: *CAN BUS 30 verification* Set the CAN BUS board address to 30 Select "CAN BUS I/F Side" to A *CAN BUS 31 verification* Set the CAN BUS board address to 31 Select "CAN BUS I/F Side" to B	OK	OK	
IBUS-B.31	Using the table at the end of paragraph verify that Iload-Itlm is lower than 7,6A	OK	OK	Verify that all telemetries are in line with tolerance 20% F.S. see RFW PDS-WV-CGS-002
IBUS-B.32	Set OFF in the window All Outlets ON/OFF and push the relative "W" command	OK	OK	
IBUS-B.33	Switch OFF the "power switch "of "power switch box"	Switch OFF	Switch OFF	
IBUS-B.34	Disconnect all Loads	OK	OK	

DATE: 6/08/2009	TEST CONDUCTOR Albertin A.	QA Francini E.	CUSTOMER

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STEP n°	TEST SEQUENCE	EXPECTED VALUE	MEASURED VALUE	REMARKS

Side B Input Stage - current monitors

	INPUT STAGE	
	CAN BUS 30	CAN BUS 31
Iload ~1,1A [A] – Loads OFF	0,92	0,92
Itlm ~1,1A [A] – Loads OFF	0,528	0,312
Itlm - Iload < 7,6A	-0,392	-0,608
Iload ~4,7A [A] – Switch ON out 1, 5	4,5	4,5
Itlm ~4,7A [A] – Switch ON out 1, 5	4,47	4,27
Itlm - Iload < 7,6A	-0,030	-0,230
Iload ~10,3A [A] – Switch ON out 2, 3 ,4	10	10
Itlm ~10,3A [A] – Switch ON out 2, 3, 4	10,16	9,72
Itlm - Iload < 7,6A	0,160	-0,280
Iload ~15,1A [A] – Switch ON out 6, 7, 8 ,9	14,4	14,4
Itlm ~15,1A [A] – Switch ON out 6, 7, 8 ,9	14,82	14,3
Itlm - Iload < 7,6A	0,420	-0,100
Iload ~21,1A [A] – Switch ON out 10, 11, 12	20	20
Itlm ~21,1A [A] – Switch ON out 10, 11, 12	20,33	19,72
Itlm - Iload < 7,6A	0,330	-0,280

Tab. 5: Side B Input Stage current monitors

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10.3.2.6.2 INPUT STAGE – ESEM1A TELEMETRY

STEP n°	TEST SEQUENCE	EXPECTED VALUE	MEASURED VALUE	REMARKS
VBUS-B.1	Connect main power supply between BI_120V (positive) and BI_120V_RTN (negative)	J100 connected	J100 connected	
VBUS-B.2	Set Power supply alim to 120V	120,00V±1,00V	120,00V	
VBUS-B.3	Set output current limitation to 3A	3A±0,5A	3A	
VBUS-B.4	Enable power supply output	enabled	enabled	
VBUS-B.5	Verify that green led of **"power switch box"** is lighted	Green led ligthed	Green led ligthed	
VBUS-B.6	Switch ON the **"power switch "**of **"power switch box"**	Switch ON	Switch ON	
VBUS-B.7	Verify that red led of **"power switch box"** is lighted	Red led ligthed	Red led ligthed	
VBUS-B.8	Verify the current absorption from Main Bus	1,10A±0,20A	1,10A	Note: this current can be read from power supply display or amperometer. In case of power supply reading, verify the correctness of measurements.
VBUS-B.9	Select PDS controller software	program open	program open	
VBUS-B.10	Set the CAN BUS board address to 30	30	30	
VBUS-B.11	Select JMDC = 0	0	0	
VBUS-B.12	Select TX = A	A	A	
VBUS-B.13	Select RX = A	A	A	
VBUS-B.14	Select "CAN BUS I/F Side" to A	A	A	
VBUS-B.15	Select "PDS Side" to A B	A B	B	See PVS-16
VBUS-B.16	Click on Run flash command	OK	OK	
VBUS-B.17	Set the CAN BUS board address to 31	31	31	
VBUS-B.18	Select "CAN BUS I/F Side" to B	B	B	
VBUS-B.19	Click on Run flash command	OK	OK	
VBUS-B.20	Set the CAN BUS board address to 30	30	30	
VBUS-B.21	Select "CAN BUS I/F Side" to A	A	A	
VBUS-B.22	Fill the table at the end of paragraph	OK	OK	
VBUS-B.23	Connect a multimeter between PIN "bypass thermal interlock" (positive) and "PRI_GND"(negative) on side A of the J300 test box	OK	OK	
VBUS-B.24	To set the Voltage value use the multimeter connected on J300 test box	OK	OK	
VBUS-B.25	To read the telemetry of the ESEM1A board *Click on ESEM1A button and Press button "READ"*	OK	OK	Button located on left side of software window
VBUS-B.26	To read the telemetry of the INPUT STAGE *Click on button "READ" relevant to INPUT STAGE*	OK	OK	Button located on left side of software window
VBUS-B.27	To read telemetries change from CAN BUS 30 to CAN BUS 31 using the following parameters: *CAN BUS 30 verification*	OK	OK	

DATE: 6/08/2009	TEST CONDUCTOR Albertin A.	QA Francini E.	CUSTOMER

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UUT DATA : **Model** **PFM** **Item** **AMS02 POWER DISTRIBUTION SYSTEM** **C.I.** **PDS 18** **S/N** **FM01**

STEP n°	TEST SEQUENCE	EXPECTED VALUE	MEASURED VALUE	REMARKS
	Set the CAN BUS board address to 30 Select "CAN BUS I/F Side" to A *CAN BUS 31 verification* Set the CAN BUS board address to 31 Select "CAN BUS I/F Side" to B			
VBUS-B.28	Using the table at the end of paragraph verify that Iload-Itlm is lower than 9.5V	OK	OK	Verify that all telemetries are in line with tolerance 5% F.S.
VBUS-B.29	Switch OFF main power bus	OK	OK	
VBUS-B.30	Switch OFF the "power switch "of "power switch box"	Switch OFF	Switch OFF	

DATE: 6/08/2009	TEST CONDUCTOR Albertin A.	QA Francini E.	CUSTOMER

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STEP n°	TEST SEQUENCE	EXPECTED VALUE	MEASURED VALUE	REMARKS

Side B Input Stage – Esem1A telemetry

	INPUT STAGE		ESEM1A	
	CAN BUS 30	CAN BUS 31	CAN BUS 30	CAN BUS 31
Vbus 90V [V]	89,8	89,8	89,8	89,8
Vtel 90 [V]	90,28	92	91,88	89,48
Vtlm - Vbus < 9,5V	0,630	2,130	1,830	-0,970
Vbus 110V [V]	110,04	110,04	110,04	110,04
Vtel 110 [V]	111,5	112,1	112,7	109,0
Vtlm - Vbus < 9,5V	1,260	2,060	1,960	0,560
Vbus 120V [V]	120,15	120,15	120,15	120,15
Vtel 120 [V]	120,7	121,8	120,8	119,4
Vtlm - Vbus < 9,5V	1,060	1,960	1,060	-0,440
Vbus 130V [V]	130,23	130,23	130,23	130,23
Vtel 130 [V]	131,3	131,7	129,1	129,8
Vtlm - Vbus < 9,5V	0,880	1,380	0,780	2,380
Vbus 145V [V]	145,43	145,43	145,43	145,43
Vtel 145 [V]	146,7	148	145,7	144,8
Vtlm - Vbus < 9,5V	1,080	2,680	0,780	-1,420

Tab. 6: Side B Input Stage - ESEM 1-A telemetry

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11. ANNEX PVS

PROCEDURE VARIATION SHEET ref. N°: PVS-01		
Test Procedure Ref.: PDS-PR-CGS-020 Is.1	Page Revised: 29	Paragraph Revised: 3.1.5.2

Description of Change:

The Test Sequence was:

Verify that all the cables of the section are connected

The Test Sequence is:

Verify that all the cables of the section are connected and all loads are set to 0A.

Reason for Change:

Unit check must start without current absorption from loads.

CONCURRENCE				
Test Cond. Albertin A.	QA Francini E.	System Eng. Alia S.		Customer
Date 6/8/09	Date 06/08/09	Date 6/8/09		Date

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PROCEDURE VARIATION SHEET ref. N°: PVS-02

Test Procedure Ref.:	Page Revised:	Paragraph Revised:
PDS-PR-CGS-020 Is.1	42, 48, 54, 94, 101, 107, 113	PB2-2-A. 12, PB2-3-A.12, PB2-4-A.12, PB2-1-B.12, PB2-2-B.12, PB2-3-B.12, PB2-4-B.12

Description of Change:

The Test Sequence and Expected value were:

Set input bus current limitation to 15A	15A±1A

The Test Sequence and Expected value are:

Set input bus current limitation to 27,5A	27,5A±1A

Reason for Change:

Typing error

CONCURRENCE

Test Cond.	QA	System Eng.		Customer
Albertin A.	Francini E.	Alia S.		
Date 6/8/09	Date 06/08/09	Date 6/8/09		Date

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PROCEDURE VARIATION SHEET ref. N°: PVS-03

Test Procedure Ref.:	Page Revised:	Paragraph Revised:
PDS-PR-CGS-020 Is.1	76	3.2.2.1

Description of Change:

The Expected Value was:

J100 connected

The Expected Value is:

J200 connected

Reason for Change:

Typing error

CONCURRENCE

Test Cond. Albertin A.	QA Francini E.	System Eng. Alia S.		Customer
Date 6/8/09	Date 06/08/09	Date 6/8/09		Date

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PROCEDURE VARIATION SHEET ref. N°: PVS-04

Test Procedure Ref.:	Page Revised:	Paragraph Revised:
PDS-PR-CGS-020 Is.1	89	1A-B.2

Description of Change:

The Test Sequence and Expected value were:

Set input bus current limitation to 15A	15A

The Test Sequence and Expected value are:

Set input bus current limitation to 27,5A	27,5A±1A

Reason for Change:

Typing error

CONCURRENCE

Test Cond. Albertin A.	QA Francini E.	System Eng. Alia S.		Customer
Date 6/8/09	Date 06/08/09	Date 6/8/09		Date

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PROCEDURE VARIATION SHEET ref. N°: PVS-05

Test Procedure Ref.:	Page Revised:	Paragraph Revised:
PDS-PR-CGS-020 Is.1	55, 114	PB2-4-A.36, PB2-4-B.36

Description of Change:

The measured value was:

-40°C<T<80C°
2,000V±150mV

The measured value is:

N.A.

Reason for Change:

The test is not necessary because it is performed 7 steps later.

CONCURRENCE

Test Cond. Albertin A.	QA Francini E.	System Eng. Alia S.		Customer
Date 6/8/09	Date 06/08/09	Date 6/8/09		Date

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PROCEDURE VARIATION SHEET ref. N°: PVS-06

Test Procedure Ref.:	Page Revised:	Paragraph Revised:
PDS-PR-CGS-020 Is.1	60, 119	3A-4-A.47, 3A-4-B.47

Description of Change:

The step 3A-4-A.47 and relative 3A-4-B.47 have been added.

Reason for Change:

For safety reasons, the main bus is switched off.

CONCURRENCE

Test Cond. Albertin A.	QA Francini E.	System Eng. Alia S.		Customer
Date 6/8/09	Date 06/08/09	Date 6/8/09		Date

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PROCEDURE VARIATION SHEET ref. N°: PVS-07

Test Procedure Ref.:	Page Revised:	Paragraph Revised:
PDS-PR-CGS-020 Is.1	65	3B-A.52

Description of Change:

The step 3B-A.52 has been added. As consequence the numeration of steps from 3B-A.52 to 3B-A.80 becomes from 3B-A.53 to 3B-A.81.

Reason for Change:

In order to verify the correctness off the voltages of steps 3B-A.53, the main bus voltage must be measured.

CONCURRENCE

Test Cond. Albertin A.	QA Francini E.	System Eng. Alia S.		Customer
Date 6/8/09	Date 06/08/09	Date 6/8/09		Date

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PROCEDURE VARIATION SHEET ref. N°: PVS-08

Test Procedure Ref.:	Page Revised:	Paragraph Revised:
PDS-PR-CGS-020 Is.1	124	3B-B.52

Description of Change:

The step 3B-B.52 has been added. As consequence the numeration of steps from 3B-B.52 to 3B-B.80 becomes from 3B-B.53 to 3B-B.81.

Reason for Change:

In order to verify the correctness off the voltages of steps 3B-B.53, the main bus voltage must be measured.

CONCURRENCE

Test Cond.	QA	System Eng.		Customer
Albertin A.	Francini E.	Alia S.		
Date 6/8/09	Date 06/08/09	Date 6/8/09		Date

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PROCEDURE VARIATION SHEET ref. N°: PVS-09

Test Procedure Ref.:	Page Revised:	Paragraph Revised:
PDS-PR-CGS-020 Is.1	65, 124	3B-A.53, 3B-B.53

Description of Change:

The Expected value was:

117,00V<V<120,00V
117,00V<V<120,00V
117,00V<V<120,00V
117,00V<V<120,00V
117,00V<V<120,00V
117,00V<V<120,00V
117,00V<V<120,00V
117,00V<V<120,00V
117,00V<V<120,00V
117,00V<V<120,00V
117,00V<V<120,00V
117,00V<V<120,00V

The expected value is:

115,00V<V<120,00V
115,00V<V<120,00V
115,00V<V<120,00V
115,00V<V<120,00V
115,00V<V<120,00V
115,00V<V<120,00V
115,00V<V<120,00V
115,00V<V<120,00V
115,00V<V<120,00V
115,00V<V<120,00V
115,00V<V<120,00V
115,00V<V<120,00V

Reason for Change:

Typing error.

CONCURRENCE

Test Cond.	QA	System Eng.		Customer
Albertin A.	Francini E.	Alia S.		
Date 6/8/09	Date 06/08/09	Date 6/8/09		Date

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PROCEDURE VARIATION SHEET ref. N°: PVS-10

Test Procedure Ref.:	Page Revised:	Paragraph Revised:
PDS-PR-CGS-020 Is.1	54	PB2-4-A.22

The expected value was 31

The expected value is 30

Reason for Change:

Typing error.

CONCURRENCE

Test Cond.	QA	System Eng.		Customer
Albertin A.	Francini E.	Alia S.		
Date 6/8/09	Date 06/08/09	Date 6/8/09		Date

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PROCEDURE VARIATION SHEET ref. N°: PVS-11

Test Procedure Ref.:	Page Revised:	Paragraph Revised:
PDS-PR-CGS-020 Is.1	55	PB2-4-A.46

The Test sequence was :

Set the CAN BUS board address to 30

The Expected value was:

30

The Test sequence is :

Set the CAN BUS board address to 31

The Expected value is:

31

Reason for Change:

Typing error.

CONCURRENCE

Test Cond. Albertin A.	QA Francini E.	System Eng. Alia S.		Customer
Date 6/8/09	Date 06/08/09	Date 6/8/09		Date

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PROCEDURE VARIATION SHEET ref. N°: PVS-12

Test Procedure Ref.:	Page Revised:	Paragraph Revised:
PDS-PR-CGS-020 Is.1	55	PB2-4-A.47

The Test sequence was :

Select "CAN BUS I/F Side" to A

The Expected value was:

A

The Test sequence is :

Select "CAN BUS I/F Side" to B

The Expected value is:

B

Reason for Change:

Typing error.

CONCURRENCE

Test Cond. Albertin A.	QA Francini E.	System Eng. Alia S.		Customer
Date 6/8/09	Date 06/08/09	Date 6/8/09		Date

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PROCEDURE VARIATION SHEET ref. N°: PVS-13

Test Procedure Ref.:	Page Revised:	Paragraph Revised:
PDS-PR-CGS-020 Is.1	56	PB2-4-A.54

The Test sequence was :

Set the CAN BUS board address to 31

The Expected value was:

31

The Test sequence is :

Set the CAN BUS board address to 30

The Expected value is:

30

Reason for Change:

Typing error.

CONCURRENCE

Test Cond.	QA	System Eng.		Customer
Albertin A.	Francini E.	Alia S.		
Date 6/8/09	Date 06/08/09	Date 6/8/09		Date

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PROCEDURE VARIATION SHEET ref. N°: PVS-14

Test Procedure Ref.:	Page Revised:	Paragraph Revised:
PDS-PR-CGS-020 Is.1	56	PB2-4-A.55

The Test sequence was :

Select "CAN BUS I/F Side" to B

The Expected value was:

B

The Test sequence is :

Select "CAN BUS I/F Side" to A

The Expected value is:

A

Reason for Change:

Typing error.

CONCURRENCE

Test Cond.	QA	System Eng.		Customer
Albertin A.	Francini E.	Alia S.		
Date 6/8/09	Date 06/08/09	Date 6/8/09		Date

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PROCEDURE VARIATION SHEET ref. N°: PVS-15

Test Procedure Ref.:	Page Revised:	Paragraph Revised:
PDS-PR-CGS-020 Is.1	66	3B-A.57

The Test sequence was :

Set "ON" in the window "O_12:AO_CCEB" and push the relative "W" command

The Test sequence is :

Set "ON" in the window All Outlets ON/OFF and push the relative "W" command

Reason for Change:

In order to execute the test all outlets need to be switched ON.

CONCURRENCE

Test Cond. Albertin A.	QA Francini E.	System Eng. Alia S.		Customer
Date 6/8/09	Date 06/08/09	Date 6/8/09		Date

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PROCEDURE VARIATION SHEET ref. N°: PVS-16

Test Procedure Ref.:	Page Revised:	Paragraph Revised:
PDS-PR-CGS-020 Is.1	130	VBUS-B.15

The test sequence was:

Select "PDS Side" to A

The expected value was :

A

The test sequence is:

Select "PDS Side" to B

The expected value is :

B

Reason for Change:

Typing error.

CONCURRENCE

Test Cond. Albertin A.	QA Francini E.	System Eng. Alia S.		Customer
Date 6/8/09	Date 06/08/09	Date 6/8/09		Date

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12. CONCLUSION

Test successfully completed.

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