High Temperature Operation Test

1. Test condition:

1.1 I/P Voltage:	53Vdc	
1.2 O/P Loading:	210W	(Max Load)
1.3 Amb Temperature:	65℃	(Max -operating temperature)
1.4 Humidity:	95%	
1.5 Test Duration:	72	Hrs
1.6 Sample Size:	4	Pcs

2. Test Procedure:

2.1 Begin the test with temparature at 25℃ and confirm all the UUT function were met specification requirement. Record all output rail voltage value.

2.2 Set UUT input voltage to low line voltage.

2.3 Power up UUT in the chamber.

2.4 Set chamber temperature and humidity to UUT Max operation temperature and humidity.

2.5 Hold temperature and humidity at UUT Max operation temperature and humidity for 24 hours.

2.6 Record all output rail voltage value at 1st, 3rd and 24th hour.

2.7 Ramp temperature down to 25℃ and check all the UUT function and record all output rail voltage value.

3. Accept criteria:

3.1 No failures during test.

3.2 All output rail voltage value must meet specification requiremnet.

4. Test Result:

4.1 Function: ☑ PASS ☐ FAIL

4.2 Physical: ☑ PASS ☐ FAIL

Low Temperature Operation Test

1. Test condition:

1.1 I/P Voltage:	53Vdc	
1.2 O/P Loading:	210W	(Max Load)
1.3 Amb Temperature:	-45℃	(Min -operating temperature)
1.4 Test Duration:	72	Hrs
1.5 Sample Size:	4	Pcs

2. Test Procedure:

2.1 Begin the test with temparature at 25℃ and confirm all the UUT function were met specification requirement. Record all output rail voltage value.
2.2 Set UUT input voltage to low line voltage.
2.3 Set chamber temperature to UUT Min operation temperature.
2.4 Shut off power to UUT and hold temperature at UUT Min operation temperature for 4 hours
2.5 After 4 hours, turn on power to UUT and check all output rail voltage value of UUT.
2.6 Record all output rail voltage value at 1st, 3rd and 24th hour.
2.7 Ramp temperature down to 25℃ and check all the UUT function and record all output rail voltage value.

3. Accept criteria:

3.1 No failures during test.
3.2 All output rail voltage value must meet specification requiremnet.

4. Test Result:

4.1 Function: ☑ PASS ☐ FAIL
4.2 Physical: ☑ PASS ☐ FAIL

Low Temperature Start Up Test

1. Test condition:

1.1 I/P Voltage:	53Vdc	
1.2 O/P Loading:	210W	
1.3 Amb Temperature:	-45℃	(Min. operating temperature-5℃)
1.4 Test Duration:	6	Hrs
1.5 Sample Size:	4	Pcs

2. Test Procedure:

2.1 Begin the test with temparature at 25℃ and confirm all the UUT function were met specification requirement. Record all output rail voltage value.

2.2 Set UUT input voltage to low line voltage.

2.3 Set chamber temperature to UUT Min operation temperature -5℃.

2.4 Shut off power to UUT and hold temperature at UUT Min operation temperature -5℃ for 6 hours.

2.5 After 4 hours, turn on power to UUT and check all output rail voltage value of UUT.

2.6 Record all output rail voltage value.

2.7 Set I/P voltage to high line and repeat step 2.1~2.6.

3. Accept criteria:

3.1 No failures during test.

3.2 All output rail voltage value must meet specification requiremnet.

4. Test Result:

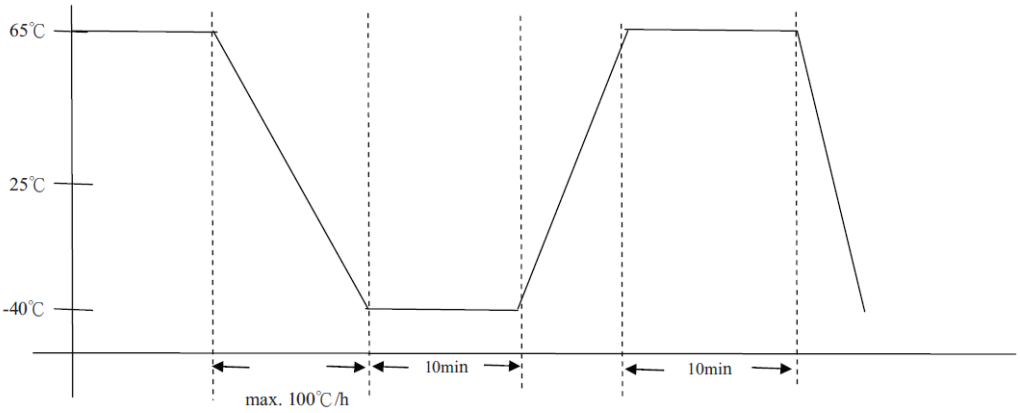
4.1 Function: ☑ PASS ☐ FAIL

4.2 Physical: ☑ PASS ☐ FAIL

Thermal Shock Test

1. Test condition:

1.1 I/P Voltage:	53Vdc	
1.2 O/P Loading:	210W	
1.3 standard:	IEC61215-10-11	
1.4 Sample Size:	4	Pcs



Repeat 200 cycle

2. Test Procedure:

2.1 UUT is to be visually inspected.

2.2 Begin the test with temparature at 25℃ and confirm all the UUT function were met specification requirement. Record all output rail voltage value.

2.3 Power is not applied during this test.

2.4 Follow test profile to set chamber temperature and test duration.

3. Accept criteria:

3.1 No failures during test.

3.2 No visual damage to the products.

3.3 All output rail voltage value must meet specification requiremnet.

4. Test Result:

4.1 Function: ☑ PASS ☐ FAIL

4.2 Physical: ☑ PASS ☐ FAIL