Temperature Test Report

Model : POE-DX60T/POE-DX90T

H/W Version: 1.0

Revision History

Date	Description	Revision	Remark
2023/8/29	initial	V1.0	Tina

Test Item Table MODEL: POE-DX60T

NO.	ITEM.	Result	Tester
1.	Basic Function Test		
1.1	Power on Test	Pass	Tina
1.2	LED Display Function Test	Pass	Tina
2.	Environmental Test		
2.1	Operation Dry Heat Test 75℃	Pass	Tina
2.2	Operation Cold Test -40℃	Pass	Tina
2.3	Operation Temperature Cycle Test	Pass	Tina

1. Basic Function Test.

1.1 Power on Test

Test Equipment:

1. DUT: 1 PCS
2. PoE Splitter (POE-PD05S): 1PCS

Test conditions:

Temperature: 25℃.

Test times: 5cycles

Procedure:

1. Ensure the product can operate normally in room temperature

2. Repeat switch 5 times

Test Criteria:

DUT normal switch

Result:

Test Times	**Check Reboot**
1st **Times**	Pass
2nd **Times**	Pass
3rd **Times**	Pass
4th **Times**	Pass
5th **Times**	Pass

1.2 LED Display Function Test

Make sure all LED display can meet Product Spec

Test Equipments:

Item	Equipment Name	Qty.	Equipment Model
1	Power Source:	1	DC Power Supply
2	PoE Splitter	1	POE-PD05S

Test Procedure:

1 Turn on the DUT

2 Check the power LED and system LED display status

3 Use packet generator sequentially connect each ports , and set different media type to check LED display status

4 Record the results

Pass Criteria:

POE LED can working normally and meet Product Spec

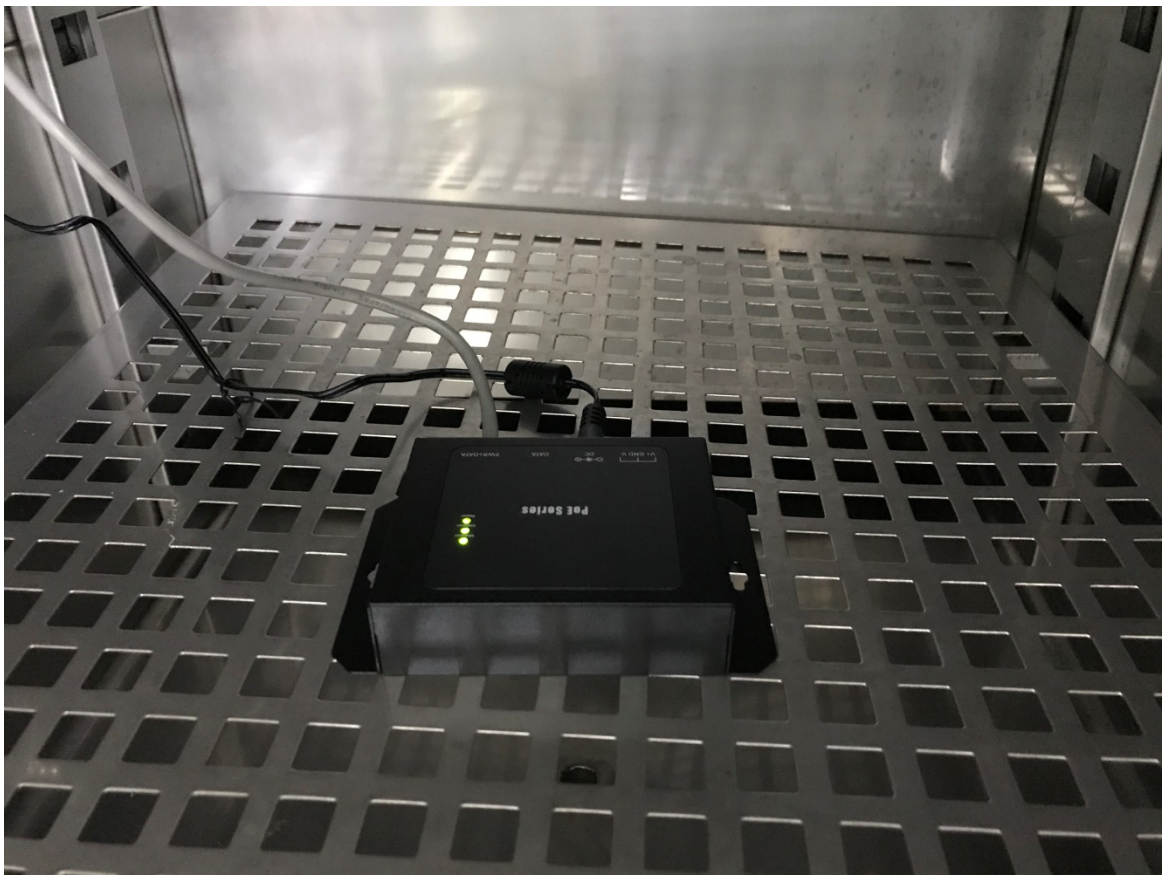
LED	● PoE Out Power Light: ON → Green

	PoE Light: ON→ Green

Result:

LED Display Test

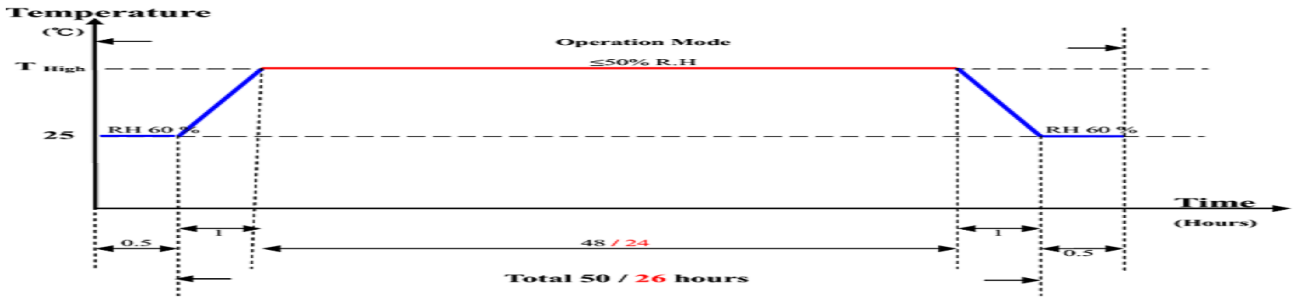
Item		Color	Result
PoE Out	**Power Light**	Green	PASS
	PoE Light	Green	PASS



2. Environmental Test

2.1 Operation Heat Test

To ensure DUT can work under harsh ambient 75℃+/- 3℃ temperature.



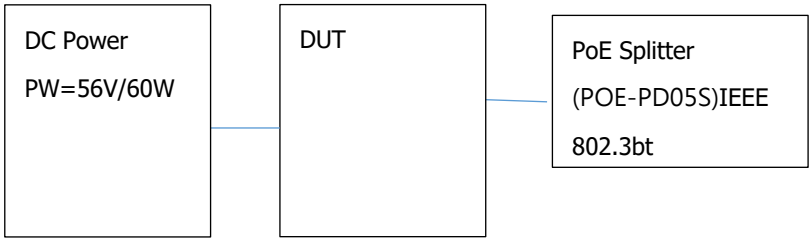
Test equipment:

Equipment	Qty
DUT	1
PoE Splitter (POE-PD05S)	1
DC Power Supply	1
Loader KP184	1

Test criteria:

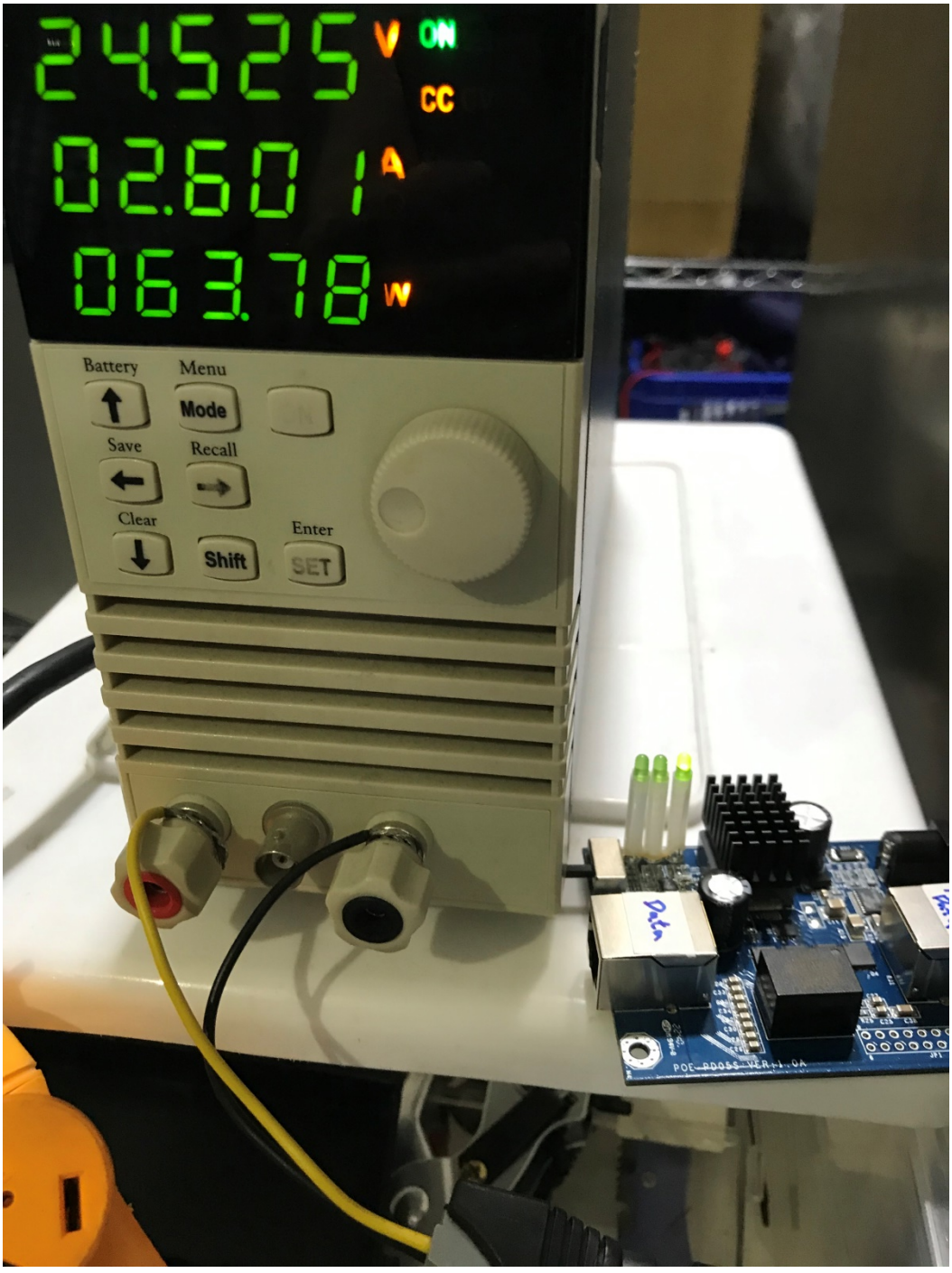
Burning machine is working properly at 75℃.

Test setup:




POWER LIGHT
FAILURE
RUN
STOP
TEMP&HUMI


MAIN
FIX TEST
2023-08-29 15:21:45
RUNNING
TEMP
℃
77.96
SP
78.00
MV
14.9%
HUMI
%
SP
0.0
MV
0.0%
01 02 03 04 05 06 07 08 09 10
RUN TIME:
0H 12M 42S
LIGHT
SET
GRAPH
STOP


24.525 V ON
CC
02.601 A
063.78 W
Battery
Menu
Mode
Save
Recall
Clear
Enter
Shift
SET

Test procedure:

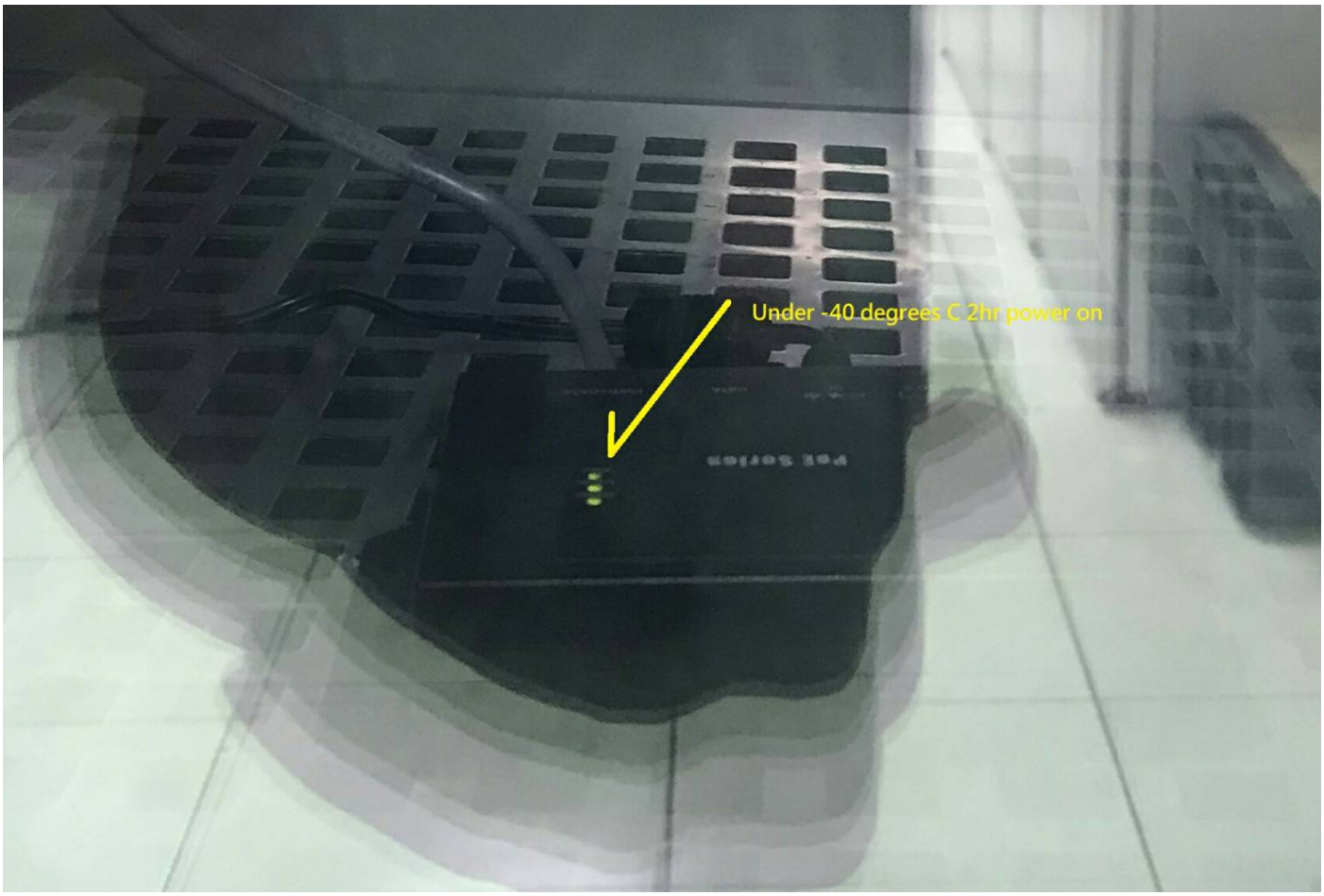
1. Follow up test configuration to setup the test platform.
2. PoE port Loader set 63W
3. Setup the ambient at 75 degree C burn-in 2hr Test

Test result:

Conclusion the test give pass.

2.1 Operation Cold StartTest

After the DUT is power turned off first, it is cool down from room temperature to -40 degrees C for 2 hours, and then the cold start test



Test result:

Conclusion the test give pass.

Operation Cold Test Report

To ensure DUT can work under harsh ambient -40℃ temperature.

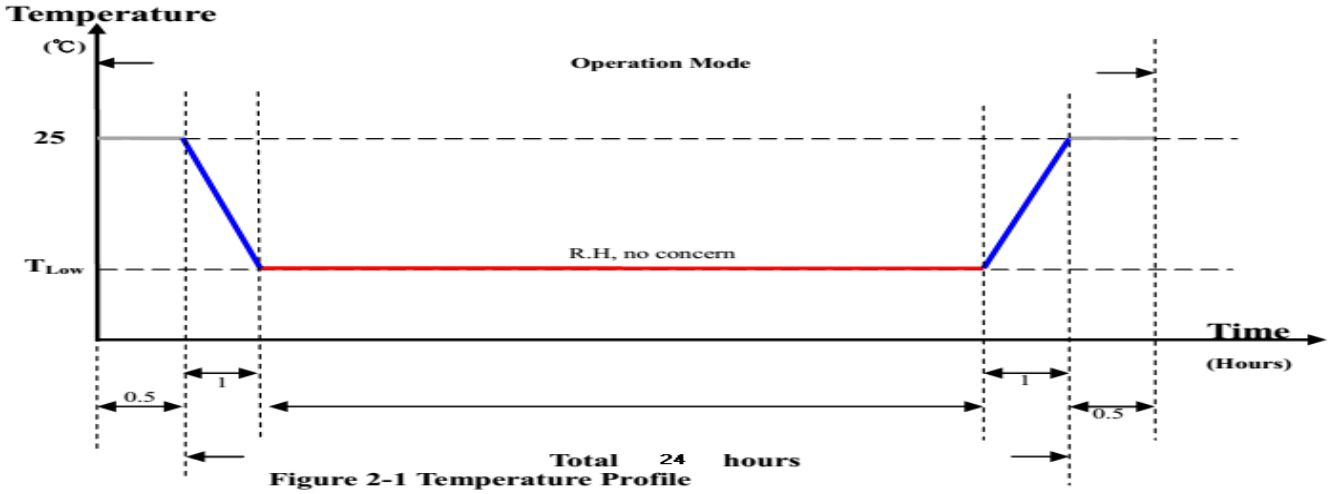


Figure 2-1 Temperature Profile

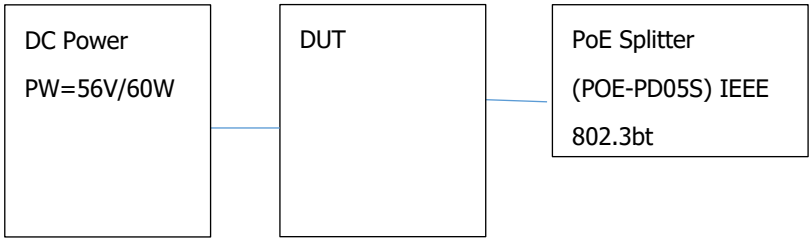
Test equipment:

Equipment	Qty
DUT	1
PoE Splitter (POE-PD05S)	1
DC Power Supply	1
Loader KP184	1

Test criteria:

1. Burning machine is working properly at -40℃.

Test setup:


DC Power
PW=56V/60W
DUT
PoE Splitter
(POE-PD05S) IEEE
802.3bt


MAIN
FIX TEST
2023-08-29 14:44:21
RUNNING
TEMP
℃
-40.05
SP
-40.00
MV
21.1%
HUMI
%
SP
0.0
MV
0.0%
01 02 03 04 05 06 07 08 09 10
RUN TIME:
0H 53M 03S
LIGHT
SET
GRAPH
STOP
POWER LI
RUN

1. Follow up test configuration to setup the test platform.
2. PoE port Loader set 63W
3. Setup the ambient at 75 degree C burn-in 2hr Test

Test result:

Conclusion the test give pass.

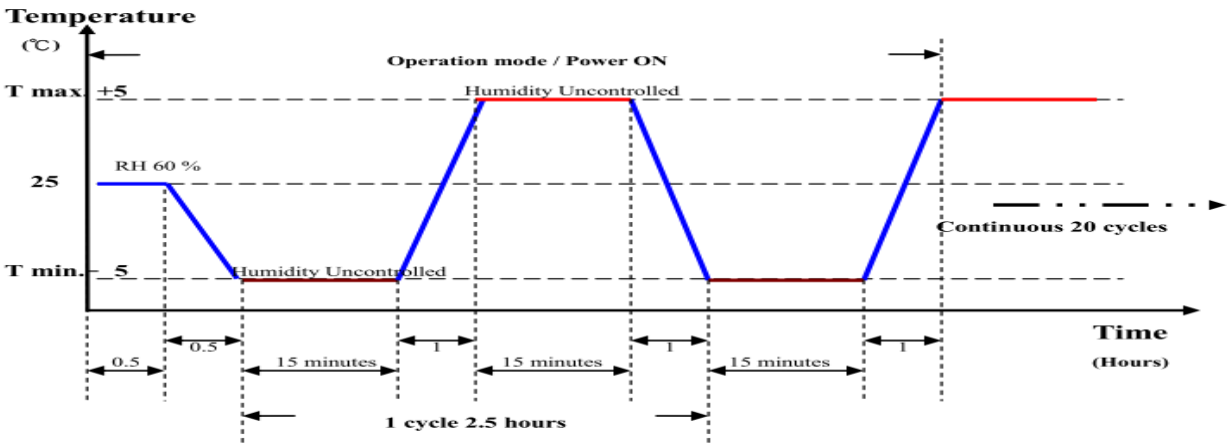
2.3 Operation Temperature Cycle Test

Test equipment:

1. -40℃, 15 minute

2. 75℃ 15 minute

3. Duration: 5cycle

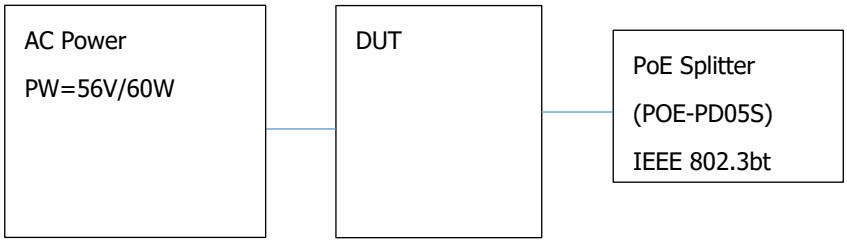


Test equipment:

Equipment	Qty
DUT	1
PoE Splitter (POE-PD05S)	1
DC Power Supply	1
Loader KP184	1

Burning machine is working properly at 75℃~-40℃ Cycle 5 time.

Test setup:



Test procedure:

1. Follow up test configuration to setup the test platform.
2. PoE port Loader set 63W
3. Setup the ambient at 75 and -40 degree C and temperature Cycles 5 times.

Test results:

Conclusion the test give pass.