



## Electrostatic Discharge (ESD) Pre-Compliance Test Report

As per IEC61000-4-2

Date Performed: 09-Mar-2016

**Model No.:** GTM96300-2007.5-2.5-T2

**Output:** 5V/4A, 20Watts

**Test Procedure:**

Testing was basically conducted to the requirement of IEC61000-4-2. However Horizontal Coupling Plane (HCP) and Vertical Coupling Plane (VCP) testing was not conducted, since this is a less stressful test, and less likely to cause a problem to the EUT.

**Test Performance:**

Performance Criteria: A

**Environmental Conditions:** Room Temp (20°C to 26°C range)

UUT Operation Mode:

Vac Input	Description
120V 60Hz	Power supply was tested with resistive load.

**Electrostatic Discharge Immunity Test Data**

Discharge type	Discharge Level/Polarity	Number of discharges per level and location
Contact Discharge	±8KV, ±10KV	5 per polarity
Air Discharge	±8KV, ±15KV, ±18KV, ±20KV	5 per polarity

**Table 1: Electrostatic Discharge Immunity (Contact Discharge)**

Test Points	Test Levels (KV)			
	+8	-8	+10	-10
Housing Seam	Pass	Pass	Pass	Pass
Housing Surface	Pass	Pass	Pass	Pass
Output Cord	Pass	Pass	Pass	Pass
Exposed Gnd at the output connector	Pass	Pass	Pass	Pass

**Table 2: Electrostatic Discharge Immunity (Air Discharge)**

Test Points	Test Levels (KV)							
	+8	-8	+15	-15	+18	-18	+20	-20
Housing Seam	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Housing Surface	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Output Cord	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Exposed Gnd at the output connector	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass

Note: Highlighted in blue are the ENHANCED CAPABILITY of the product.

Tested by: EV



**Electrostatic Discharge (ESD) Pre-compliance Test Report**  
As per IEC61000-4-2

Date Performed: 14-Mar-2016  
**Model No.:** GTM96600-4005-T2  
**Output:** 5V/8A, 40Watts

**Test Procedure:**

Testing was basically conducted to the requirement of IEC61000-4-2. However Horizontal Coupling Plane (HCP) and Vertical Coupling Plane (VCP) testing was not conducted, since this is a less stressful test, and less likely to cause a problem to the EUT.

**Test Performance:**

Performance Criteria: A

**Environmental Conditions:** Room Temp (20°C to 26°C range)

UUT Operation Mode:

Vac Input	Description
120V 60Hz	Power supply was tested with resistive load.

**Electrostatic Discharge Immunity Test Data**

Discharge type	Discharge Level/Polarity	Number of discharges per level and location
Contact Discharge	±8KV, ±10KV	5 per polarity
Air Discharge	±8KV, ±15KV, ±18KV, ±20KV	5 per polarity

**Table 1: Electrostatic Discharge Immunity (Contact Discharge)**

Test Points	Test Levels (KV)			
	+8	-8	+10	-10
Housing Seam	Pass	Pass	Pass	Pass
Housing Surface	Pass	Pass	Pass	Pass
Output Cord	Pass	Pass	Pass	Pass
Exposed Gnd at the output connector	Pass	Pass	Pass	Pass

**Table 2: Electrostatic Discharge Immunity (Air Discharge)**

Test Points	Test Levels (KV)							
	+8	-8	+15	-15	+18	-18	+20	-20
Housing Seam	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Housing Surface	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Output Cord	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Exposed Gnd at the output connector	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass

Note: Highlighted in blue are the ENHANCED CAPABILITY of the product.

Tested by: EV



## Electrostatic Discharge (ESD) Pre-compliance Test Report

As per IEC61000-4-2

Date Performed: 14-Oct-2015

**Model No.:** GTM96060-0612

**Output:** 12V/0.5A, 6Watts

**Test Procedure:**

Testing was basically conducted to the requirement of IEC61000-4-2. However Horizontal Coupling Plane (HCP) and Vertical Coupling Plane (VCP) testing was not conducted, since this is a less stressful test, and less likely to cause a problem to the EUT.

**Test Performance:**

Performance Criteria: A

**Environmental Conditions:** Room Temp (20°C to 26°C range)

UUT Operation Mode:

Vac Input	Description
120V 60Hz	Power supply was tested with resistive load.

**Electrostatic Discharge Immunity Test Data**

Discharge type	Discharge Level/Polarity	Number of discharges per level and location
Contact Discharge	±8KV, ±10KV	5 per polarity
Air Discharge	±8KV, ±15KV, ±18KV	5 per polarity

**Table 1: Electrostatic Discharge Immunity (Contact Discharge)**

Test Points	Test Levels (KV)			
	+8	-8	+10	-10
Housing Seam	Pass	Pass	Pass	Pass
Housing Surface	Pass	Pass	Pass	Pass
Output Cord	Pass	Pass	Pass	Pass
Exposed Gnd at the output connector	Pass	Pass	Pass	Pass

**Table 2: Electrostatic Discharge Immunity (Air Discharge)**

Test Points	Test Levels (KV)					
	+8	-8	+15	-15	+18	-18
Housing Seam	Pass	Pass	Pass	Pass	Pass	Pass
Housing Surface	Pass	Pass	Pass	Pass	Pass	Pass
Output Cord	Pass	Pass	Pass	Pass	Pass	Pass
Exposed Gnd at the output connector	Pass	Pass	Pass	Pass	Pass	Pass

Note: Highlighted in blue are the ENHANCED CAPABILITY of the product.

Tested by: EV



## Electrostatic Discharge (ESD) Precompliance Test Report

As per IEC61000-4-2

Date Performed: 07-Oct-2015

**Model No.:** GTM96180-1812

**Output:** 12V/1.5A, 18Watts

**Test Procedure:**

Testing was basically conducted to the requirement of IEC61000-4-2. However Horizontal Coupling Plane (HCP) and Vertical Coupling Plane (VCP) testing was not conducted, since this is a less stressful test, and less likely to cause a problem to the EUT.

**Test Performance:**

Performance Criteria: A

**Environmental Conditions:** Room Temp (20°C to 26°C range)

UUT Operation Mode:

Vac Input	Description
120V 60Hz	Power supply was tested with resistive load.

**Electrostatic Discharge Immunity Test Data**

Discharge type	Discharge Level/Polarity	Number of discharges per level and location
Contact Discharge	±8KV, ±10KV	5 per polarity
Air Discharge	±8KV, ±15KV, ±18KV	5 per polarity

**Table 1: Electrostatic Discharge Immunity (Contact Discharge)**

Test Points	Test Levels (KV)			
	+8	-8	+10	-10
Housing Seam	Pass	Pass	Pass	Pass
Housing Surface	Pass	Pass	Pass	Pass
Output Cord	Pass	Pass	Pass	Pass
Exposed Gnd at the output connector	Pass	Pass	Pass	Pass

**Table 2: Electrostatic Discharge Immunity (Air Discharge)**

Test Points	Test Levels (KV)					
	+8	-8	+15	-15	+18	-18
Housing Seam	Pass	Pass	Pass	Pass	Pass	Pass
Housing Surface	Pass	Pass	Pass	Pass	Pass	Pass
Output Cord	Pass	Pass	Pass	Pass	Pass	Pass
Exposed Gnd at the output connector	Pass	Pass	Pass	Pass	Pass	Pass

Note: Highlighted in blue are the ENHANCED CAPABILITY of the product.

Tested by: EV



## Electrostatic Discharge (ESD) Precompliance Test Report

As per IEC61000-4-2

Date Performed: 07-Oct-2015

**Model No.:** GTM96300-3014.5-2.5-T3A

**Output:** 12V/2.5A, 30Watts

**Test Procedure:**

Testing was basically conducted to the requirement of IEC61000-4-2. However Horizontal Coupling Plane (HCP) and Vertical Coupling Plane (VCP) testing was not conducted, since this is a less stressful test, and less likely to cause a problem to the EUT.

**Test Performance:**

Performance Criteria: A

**Environmental Conditions:** Room Temp

UUT Operation Mode:

Vac Input	Description
120V 60Hz	Power supply was tested with resistive load.

**Electrostatic Discharge Immunity Test Data**

Discharge type	Discharge Level/Polarity	Number of discharges per level and location
Contact Discharge	±8KV, ±10KV	5 per polarity
Air Discharge	±8KV, ±15KV, ±18KV	5 per polarity

**Table 1: Electrostatic Discharge Immunity (Contact Discharge)**

Test Points	Test Levels (KV)			
	+8	-8	+10	-10
Housing Seam	Pass	Pass	Pass	Pass
Housing Surface	Pass	Pass	Pass	Pass
Output Cord	Pass	Pass	Pass	Pass
Exposed Gnd at the output connector	Pass	Pass	Pass	Pass

**Table 2: Electrostatic Discharge Immunity (Air Discharge)**

Test Points	Test Levels (KV)					
	+8	-8	+15	-15	+18	-18
Housing Seam	Pass	Pass	Pass	Pass	Pass	Pass
Housing Surface	Pass	Pass	Pass	Pass	Pass	Pass
Output Cord	Pass	Pass	Pass	Pass	Pass	Pass
Exposed Gnd at the output connector	Pass	Pass	Pass	Pass	Pass	Pass

Note: Highlighted in blue are the ENHANCED CAPABILITY of the product.

Tested by: EV



**Electrostatic Discharge (ESD) Pre-compliance Test Report**  
As per IEC61000-4-2

Date Performed: 14-Oct-2015

**Model No.:** GTM96600-6015-3.0-T3A

**Output:** 12V/5A, 60Watts

**Test Procedure:**

Testing was basically conducted to the requirement of IEC61000-4-2. However Horizontal Coupling Plane (HCP) and Vertical Coupling Plane (VCP) testing was not conducted, since this is a less stressful test, and less likely to cause a problem to the EUT.

**Test Performance:**

Performance Criteria: A

**Environmental Conditions:** Room Temp (20°C to 26°C range)

UUT Operation Mode:

Vac Input	Description
120V 60Hz	Power supply was tested with resistive load.

**Electrostatic Discharge Immunity Test Data**

Discharge type	Discharge Level/Polarity	Number of discharges per level and location
Contact Discharge	±8KV, <b>±10KV</b>	5 per polarity
Air Discharge	±8KV, ±15KV, <b>±18KV, ±20KV</b>	5 per polarity

**Table 1: Electrostatic Discharge Immunity (Contact Discharge)**

Test Points	Test Levels (KV)			
	+8	-8	<b>+10</b>	<b>-10</b>
Housing Seam	Pass	Pass	<b>Pass</b>	<b>Pass</b>
Housing Surface	Pass	Pass	<b>Pass</b>	<b>Pass</b>
Output Cord	Pass	Pass	<b>Pass</b>	<b>Pass</b>
Exposed Gnd at the output connector	Pass	Pass	<b>Pass</b>	<b>Pass</b>

**Table 2: Electrostatic Discharge Immunity (Air Discharge)**

Test Points	Test Levels (KV)							
	+8	-8	+15	-15	<b>+18</b>	<b>-18</b>	<b>+20</b>	<b>-20</b>
Housing Seam	Pass	Pass	Pass	Pass	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>
Housing Surface	Pass	Pass	Pass	Pass	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>
Output Cord	Pass	Pass	Pass	Pass	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>
Exposed Gnd at the output connector	Pass	Pass	Pass	Pass	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Note: Highlighted in **blue** are the ENHANCED CAPABILITY of the product.

Tested by: EV



## Electrostatic Discharge (ESD) Pre-compliance Test Report

As per IEC61000-4-2

Date Performed: 09-Mar-2016

**Model No.:** GTM96300-3048-T2

**Output:** 48V/0.625A, 30Watts

**Test Procedure:**

Testing was basically conducted to the requirement of IEC61000-4-2. However Horizontal Coupling Plane (HCP) and Vertical Coupling Plane (VCP) testing was not conducted, since this is a less stressful test, and less likely to cause a problem to the EUT.

**Test Performance:**

Performance Criteria: A

**Environmental Conditions:** Room Temp (20°C to 26°C range)

UUT Operation Mode:

Vac Input	Description
120V 60Hz	Power supply was tested with resistive load.

**Electrostatic Discharge Immunity Test Data**

Discharge type	Discharge Level/Polarity	Number of discharges per level and location
Contact Discharge	±8KV, ±10KV	5 per polarity
Air Discharge	±8KV, ±15KV, ±18KV, ±20KV	5 per polarity

**Table 1: Electrostatic Discharge Immunity (Contact Discharge)**

Test Points	Test Levels (KV)			
	+8	-8	+10	-10
Housing Seam	Pass	Pass	Pass	Pass
Housing Surface	Pass	Pass	Pass	Pass
Output Cord	Pass	Pass	Pass	Pass
Exposed Gnd at the output connector	Pass	Pass	Pass	Pass

**Table 2: Electrostatic Discharge Immunity (Air Discharge)**

Test Points	Test Levels (KV)							
	+8	-8	+15	-15	+18	-18	+20	-20
Housing Seam	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Housing Surface	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Output Cord	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Exposed Gnd at the output connector	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass

Note: Highlighted in blue are the ENHANCED CAPABILITY of the product.

Tested by: EV



**Electrostatic Discharge (ESD) Pre-Compliance Test Report**  
As per IEC61000-4-2

Date Performed: 24-Mar-2016  
**Model No.:** GTM96600-6048-T2  
**Output:** 48V/1.25A, 60Watts

**Test Procedure:**

Testing was basically conducted to the requirement of IEC61000-4-2. However Horizontal Coupling Plane (HCP) and Vertical Coupling Plane (VCP) testing was not conducted, since this is a less stressful test, and less likely to cause a problem to the EUT.

**Test Performance:**

Performance Criteria: C

**Environmental Conditions:** Room Temp (20°C to 26°C range)

UUT Operation Mode:

Vac Input	Description
120V 60Hz	Power supply was tested with resistive load.

**Electrostatic Discharge Immunity Test Data**

Discharge type	Discharge Level/Polarity	Number of discharges per level and location
Contact Discharge	±8KV, ±10KV	5 per polarity
Air Discharge	±8KV, ±15KV, ±18KV, ±20KV	5 per polarity

**Table 1: Electrostatic Discharge Immunity (Contact Discharge)**

Test Points	Test Levels (KV)			
	+8	-8	+10	-10
Housing Seam	Pass	Pass	Pass	Pass
Housing Surface	Pass	Pass	Pass	Pass
Output Cord	Pass	Pass	Pass	Pass
Exposed Gnd at the output connector	Pass	Pass	Pass	Pass

**Table 2: Electrostatic Discharge Immunity (Air Discharge)**

Test Points	Test Levels (KV)							
	+8	-8	+15	-15	+18	-18	+20	-20
Housing Seam	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Housing Surface	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Output Cord	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Exposed Gnd at the output connector	Pass	Pass	Pass	Pass	Pass	Pass	Cat C	Cat C

Tested by: EV





GlobTek, Inc.

NOTE: 1)

Classification	Category	Remarks
	A	No Failure
	B	Recover on its own
	C	Human intervention to recover

2) Highlighted in blue are the ENHANCED CAPABILITY of the product.

Tested by: EV



## EFT and SURGE Test Report

**Model: Model:** GTM96060-0612

Test Condition:

230Vac, FL resistive load

Group 1: Used 10D 471K type MOV (Original MOV in place)

### **A) EFT Test Profile**

**Test type:** EFT at 2KV Only

Date: 9/30/2015

```
15:59:24 Burst Generator activated!
Time      Output  Volt Freq. Burst Rep T Eut  CFG Output
          (kV) (kHz) (ms) (ms) (A)
15:59:26 L+    2.00  30.0  15   300  0.0  off
16:00:27 Stop
16:00:28 N+    2.00  30.0  15   300  0.0  off
16:01:30 Stop
16:01:31 L+N+  2.00  30.0  15   300  0.0  off
16:02:33 Stop
16:02:34 L-    2.00  30.0  15   300  0.0  off
16:03:36 Stop
16:03:37 N-    2.00  30.0  15   300  0.0  off
16:04:38 Stop
16:04:39 L-N-  2.00  30.0  15   300  0.0  off
16:05:39 Stop
```

**Result:** Passed EFT 2KV test.

### **B)EFT Test Profile**

**Test type:** EFT at 2.5KV Only

Date: 9/30/2015

```
16:08:30 Burst Generator activated!
Time      Output  Volt Freq. Burst Rep T Eut  CFG Output
          (kV) (kHz) (ms) (ms) (A)
16:08:31 L+    2.50  30.0  15   300  0.0  off
16:09:33 Stop
16:09:34 N+    2.50  30.0  15   300  0.0  off
16:10:35 Stop
16:10:36 L+N+  2.50  30.0  15   300  0.0  off
16:11:38 Stop
16:11:39 L-    2.50  30.0  15   300  0.0  off
16:12:41 Stop
16:12:42 N-    2.50  30.0  15   300  0.0  off
16:13:44 Stop
16:13:45 L-N-  2.50  30.0  15   300  0.0  off
16:14:47 Stop
```

#### **Noted the ff. events:**

Output LED flickers at the start of L+ N+ and a few times at N-.

But the unit recovers on its own. No damage on the unit.

Tested by: EV



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**C) Surge Test profile:**

Test type: Surge 1KV only (Line to Neutral)

Date: 9/30/2015

16:39:12 Surge Generator activated!

Time	Output	Us (kV)	Ph. (? (s)	Rep (A)	EUT	Cnt max	Cnt	CFG	Output
16:39:49	L+N-	1.00	0	30	0.1	4	5	off	
16:40:19	L+N-	1.00	0	30	0.1	3	5	off	
16:40:48	L+N-	1.00	0	30	0.1	2	5	off	
16:41:19	L+N-	1.00	0	30	0.1	1	5	off	
16:41:49	L+N-	1.00	0	30	0.1	0	5	off	
16:42:19	Stop Counter:0								
16:42:23	L-N+	1.00	0	30	0.1	4	5	off	
16:42:52	L-N+	1.00	0	30	0.1	3	5	off	
16:43:22	L-N+	1.00	0	30	0.1	2	5	off	
16:43:53	L-N+	1.00	0	30	0.1	1	5	off	
16:44:23	L-N+	1.00	0	30	0.1	0	5	off	
16:44:53	L-N+	1.00	0	30	0.0	0	5	off	
16:44:53	Stop Counter:0								
16:44:58	L+N-	1.00	90	30	0.1	4	5	off	
16:45:31	L+N-	1.00	90	30	0.1	3	5	off	
16:46:03	L+N-	1.00	90	30	0.1	2	5	off	
16:46:35	L+N-	1.00	90	30	0.1	1	5	off	
16:47:07	L+N-	1.00	90	30	0.1	0	5	off	
16:47:39	L+N-	1.00	90	30	0.0	0	5	off	
16:47:39	Stop Counter:0								
16:47:43	L-N+	1.00	90	30	0.1	4	5	off	
16:48:08	L-N+	1.00	90	30	0.1	3	5	off	
16:48:33	L-N+	1.00	90	30	0.1	2	5	off	
16:48:58	L-N+	1.00	90	30	0.1	1	5	off	
16:49:22	L-N+	1.00	90	30	0.1	0	5	off	
16:49:48	Stop Counter:0								
16:49:54	L+N-	1.00	180	30	0.1	4	5	off	
16:50:28	L+N-	1.00	180	30	0.1	3	5	off	
16:51:03	L+N-	1.00	180	30	0.1	2	5	off	
16:51:37	L+N-	1.00	180	30	0.1	1	5	off	
16:52:11	L+N-	1.00	180	30	0.1	0	5	off	
16:52:44	L+N-	1.00	180	30	0.0	0	5	off	
16:52:44	Stop Counter:0								
16:52:49	L-N+	1.00	180	30	0.1	4	5	off	
16:53:24	L-N+	1.00	180	30	0.1	3	5	off	
16:53:58	L-N+	1.00	180	30	0.1	2	5	off	
16:54:32	L-N+	1.00	180	30	0.1	1	5	off	
16:55:06	L-N+	1.00	180	30	0.1	0	5	off	
16:55:39	Stop Counter:0								
16:55:46	L+N-	1.00	270	30	0.1	4	5	off	
16:56:22	L+N-	1.00	270	30	0.1	3	5	off	
16:56:58	L+N-	1.00	270	30	0.1	2	5	off	
16:57:35	L+N-	1.00	270	30	0.1	1	5	off	
16:58:11	L+N-	1.00	270	30	0.1	0	5	off	
16:58:44	L+N-	1.00	270	30	0.0	0	5	off	
16:58:45	Stop Counter:0								

Tested by: EV



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```

16:58:47 L-N+      1.00 270 30 0.1 4 5 off
16:59:13 L-N+      1.00 270 30 0.1 3 5 off
16:59:38 L-N+      1.00 270 30 0.1 2 5 off
17:00:02 L-N+      1.00 270 30 0.1 1 5 off
17:00:28 L-N+      1.00 270 30 0.1 0 5 off
17:00:53 Stop Counter:0

```

**Result:** Passed 1KV Surge test (Line to Neutral).

**D) Surge Test profile:**

Test type: Surge @1.25KV only (Line to Neutral) Enhanced Capability

Date: 10/01/2015

```

08:32:57 Surge Generator activated!
Time      Output  Us   Ph. Rep  EUT  Cnt max Cnt CFG Output
          (kV)  (? (s) (A)
08:33:03 L+N-    1.25  0 30 0.1 4 5 off
08:33:33 L+N-    1.25  0 30 0.1 3 5 off
08:34:03 L+N-    1.25  0 30 0.1 2 5 off
08:34:33 L+N-    1.25  0 30 0.1 1 5 off
08:35:03 L+N-    1.25  0 30 0.1 0 5 off
08:35:33 Stop Counter:0
08:35:36 L-N+    1.25  0 30 0.1 4 5 off
08:36:06 L-N+    1.25  0 30 0.1 3 5 off
08:36:36 L-N+    1.25  0 30 0.1 2 5 off
08:37:06 L-N+    1.25  0 30 0.1 1 5 off
08:37:36 L-N+    1.25  0 30 0.1 0 5 off
08:38:06 L-N+    1.25  0 30 0.0 0 5 off
08:38:06 Stop Counter:0
08:38:10 L+N-    1.25  90 30 0.1 4 5 off
08:38:43 L+N-    1.25  90 30 0.1 3 5 off
08:39:15 L+N-    1.25  90 30 0.1 2 5 off
08:39:47 L+N-    1.25  90 30 0.1 1 5 off
08:40:19 L+N-    1.25  90 30 0.1 0 5 off
08:40:50 L+N-    1.25  90 30 0.0 0 5 off
08:40:50 Stop Counter:0
08:40:54 L-N+    1.25  90 30 0.1 4 5 off
08:41:26 L-N+    1.25  90 30 0.1 3 5 off
08:41:59 L-N+    1.25  90 30 0.1 2 5 off
08:42:31 L-N+    1.25  90 30 0.1 1 5 off
08:43:03 L-N+    1.25  90 30 0.1 0 5 off
08:43:34 Stop Counter:0
08:43:38 L+N-    1.25 180 30 0.1 4 5 off
08:44:13 L+N-    1.25 180 30 0.1 3 5 off
08:44:47 L+N-    1.25 180 30 0.1 2 5 off
08:45:22 L+N-    1.25 180 30 0.1 1 5 off
08:45:56 L+N-    1.25 180 30 0.1 0 5 off
08:46:28 Stop Counter:0
08:46:32 L-N+    1.25 180 30 0.1 4 5 off
08:47:07 L-N+    1.25 180 30 0.1 3 5 off
08:47:41 L-N+    1.25 180 30 0.1 2 5 off
08:48:16 L-N+    1.25 180 30 0.1 1 5 off
08:48:50 L-N+    1.25 180 30 0.1 0 5 off
08:49:22 Stop Counter:0

```

Tested by: EV



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```

08:49:29 L+N- 1.25 270 30 0.1 4 5 off
08:50:05 L+N- 1.25 270 30 0.1 3 5 off
08:50:41 L+N- 1.25 270 30 0.1 2 5 off
08:51:18 L+N- 1.25 270 30 0.1 1 5 off
08:51:54 L+N- 1.25 270 30 0.1 0 5 off
08:52:28 Stop Counter:0
08:52:34 L-N+ 1.25 270 30 0.1 4 5 off
08:53:10 L-N+ 1.25 270 30 0.1 3 5 off
08:53:46 L-N+ 1.25 270 30 0.1 2 5 off
08:54:23 L-N+ 1.25 270 30 0.1 1 5 off
08:55:00 L-N+ 1.25 270 30 0.1 0 5 off
08:55:33 Stop Counter:0

```

**Result:** Passed @ 1.25KV Surge test (Line to Neutral).

**E) Surge Test profile:**

Test type: Surge @ 1.5KV only (Line to Neutral)\_Enhanced Capability

Date: 10/15/2015

```

13:36:57 Surge Generator activated!
Time      Output  Us   Ph. Rep  EUT  Cnt max Cnt CFG Output
          (kV)   (? (s) (A)
13:37:27 L+N-    1.50   0 60  0.0  4  5  off
13:38:27 L+N-    1.50   0 60  0.0  3  5  off
13:39:28 L+N-    1.50   0 60  0.0  2  5  off
13:40:27 L+N-    1.50   0 60  0.0  1  5  off
13:41:28 L+N-    1.50   0 60  0.0  0  5  off
13:42:28 Stop Counter:0
13:42:31 L-N+    1.50   0 60  0.0  4  5  off
13:43:31 L-N+    1.50   0 60  0.0  3  5  off
13:44:31 L-N+    1.50   0 60  0.0  2  5  off
13:45:31 L-N+    1.50   0 60  0.0  1  5  off
13:46:32 L-N+    1.50   0 60  0.0  0  5  off
13:47:02 L-N+    1.50   0 60  0.1  0  5  off
13:47:04 L-N+    1.50   0 60  0.0  0  5  off
13:47:32 Stop Counter:0
13:47:35 L+N-    1.50  90 60  0.1  4  5  off
13:48:01 L+N-    1.50  90 60  0.0  4  5  off
13:48:37 L+N-    1.50  90 60  0.0  3  5  off
13:49:39 L+N-    1.50  90 60  0.0  2  5  off
13:50:42 L+N-    1.50  90 60  0.0  1  5  off
13:51:45 L+N-    1.50  90 60  0.0  0  5  off
13:52:46 Stop Counter:0
13:53:43 L-N+    1.50  90 60  0.1  4  5  off
13:53:52 L-N+    1.50  90 60  0.1  3  5  off
13:54:54 L-N+    1.50  90 60  0.1  2  5  off
13:55:57 L-N+    1.50  90 60  0.1  1  5  off
13:56:59 L-N+    1.50  90 60  0.1  0  5  off
13:58:00 L-N+    1.50  90 60  0.0  0  5  off
13:58:00 Stop Counter:0
13:58:05 L+N-    1.50 180 60  0.1  4  5  off
13:59:09 L+N-    1.50 180 60  0.1  3  5  off
14:00:45 L+N-    1.50 180 60  0.1  2  5  off
14:01:18 L+N-    1.50 180 60  0.1  1  5  off

```

Tested by: EV



GlobTek, Inc.

```

14:02:22 L+N-      1.50 180  60  0.1  0  5  off
14:03:25 Stop Counter:0
14:03:29 L-N+      1.50 180  60  0.1  4  5  off
14:04:34 L-N+      1.50 180  60  0.1  3  5  off
14:05:39 L-N+      1.50 180  60  0.1  2  5  off
14:06:42 L-N+      1.50 180  60  0.1  1  5  off
14:07:47 L-N+      1.50 180  60  0.1  0  5  off
14:08:50 L-N+      1.50 180  60  0.0  0  5  off
14:08:50 Stop Counter:0
14:08:57 L+N-      1.50 270  60  0.1  4  5  off
14:09:22 L+N-      1.50 270  60  0.0  4  5  off
14:10:03 L+N-      1.50 270  60  0.0  3  5  off
14:11:09 L+N-      1.50 270  60  0.0  2  5  off
14:12:16 L+N-      1.50 270  60  0.0  1  5  off
14:13:22 L+N-      1.50 270  60  0.0  0  5  off
14:14:26 Stop Counter:0
14:14:29 L-N+      1.50 270  60  0.0  4  5  off
14:14:30 L-N+      1.50 270  60  0.1  4  5  off
14:15:19 L-N+      1.50 270  60  0.1  3  5  off
14:16:09 L-N+      1.50 270  60  0.1  2  5  off
14:16:59 L-N+      1.50 270  60  0.1  1  5  off
14:17:49 L-N+      1.50 270  60  0.1  0  5  off
14:18:39 L-N+      1.50 270  60  0.0  0  5  off
14:18:39 Stop Counter:0

```

Result: Passed 1.5KV Surge test (Line to Neutral).

**F) Surge Test profile:**

Test type: Surge @ 2KV only(Line to Neutral)\_ Enhanced Capability

Date: 10/15/2015

```

14:40:17 Surge Generator activated!
Time      Output  Us   Ph. Rep  EUT  Cnt max Cnt CFG Output
          (kV)  (? (s) (A)
14:40:47 L+N-      2.00  0  60  0.0  4  5  off
14:41:36 L+N-      2.00  0  60  0.0  3  5  off
14:42:27 L+N-      2.00  0  60  0.0  2  5  off
14:43:17 L+N-      2.00  0  60  0.0  1  5  off
14:44:07 L+N-      2.00  0  60  0.0  0  5  off
14:44:57 Stop Counter:0
14:45:33 L-N+      2.00  0  60  0.0  4  5  off
14:46:39 L-N+      2.00  0  60  0.0  3  5  off
14:47:54 L-N+      2.00  0  60  0.1  2  5  off
14:48:34 L-N+      2.00  0  60  0.1  1  5  off
14:49:32 L-N+      2.00  0  60  0.1  0  5  off
14:50:01 Stop Counter:0
14:50:04 L+N-      2.00  90  60  0.1  4  5  off
14:50:05 L+N-      2.00  90  60  0.0  4  5  off
14:51:07 L+N-      2.00  90  60  0.0  3  5  off
14:52:09 L+N-      2.00  90  60  0.0  2  5  off
14:53:11 L+N-      2.00  90  60  0.0  1  5  off
14:54:13 L+N-      2.00  90  60  0.0  0  5  off
14:55:15 Stop Counter:0

```

Tested by: EV



GlobTek, Inc.

14:56:15	L-N+	2.00	90	60	0.0	4	5	off
14:56:18	L-N+	2.00	90	60	0.1	4	5	off
14:57:17	L-N+	2.00	90	60	0.1	3	5	off
14:58:20	L-N+	2.00	90	60	0.1	2	5	off
14:59:22	L-N+	2.00	90	60	0.1	1	5	off
15:00:24	L-N+	2.00	90	60	0.1	0	5	off
15:01:25	L-N+	2.00	90	60	0.0	0	5	off
15:01:26	Stop Counter:0							
15:01:28	L+N-	2.00	180	60	0.0	4	5	off
15:02:18	L+N-	2.00	180	60	0.0	3	5	off
15:03:08	L+N-	2.00	180	60	0.0	2	5	off
15:03:58	L+N-	2.00	180	60	0.0	1	5	off
15:04:49	L+N-	2.00	180	60	0.0	0	5	off
15:05:40	Stop Counter:0							
15:05:44	L-N+	2.00	180	60	0.0	4	5	off
15:05:46	L-N+	2.00	180	60	0.1	4	5	off
15:05:48	L-N+	2.00	180	60	0.0	4	5	off
15:05:50	L-N+	2.00	180	60	0.1	4	5	off
15:06:49	L-N+	2.00	180	60	0.1	3	5	off
15:07:53	L-N+	2.00	180	60	0.1	2	5	off
15:08:58	L-N+	2.00	180	60	0.1	1	5	off
15:10:01	L-N+	2.00	180	60	0.1	0	5	off
15:11:04	Stop Counter:0							
15:11:10	L+N-	2.00	270	60	0.0	4	5	off
15:12:16	L+N-	2.00	270	60	0.0	3	5	off
15:13:23	L+N-	2.00	270	60	0.0	2	5	off
15:14:30	L+N-	2.00	270	60	0.0	1	5	off
15:15:36	L+N-	2.00	270	60	0.4	0	5	off
15:15:37	L+N-	2.00	270	60	0.0	0	5	off
15:16:40	Stop Counter:0							
15:17:01	L-N+	2.00	270	60	0.1	4	5	off
15:17:52	L-N+	2.00	270	60	0.1	3	5	off
15:18:59	L-N+	2.00	270	60	0.1	2	5	off
15:19:01	L-N+	2.00	270	60	0.0	2	5	off
15:19:05	L-N+	2.00	270	60	0.1	2	5	off
15:20:05	L-N+	2.00	270	60	0.1	1	5	off
15:21:12	L-N+	2.00	270	60	0.1	0	5	off
15:22:15	Stop Counter:0							

**Result:** Passed 2KV Surge test (Line to Neutral).

### G) Surge Test profile:

**Test type:** Surge @ 4KV only(Line-PE/PE-Neutral)\_ Enhanced Capability

Date: 10/26/2015

09:59:17 Surge Generator activated!

Time	Output	Us	Ph. Rep	EUT	Cnt max	Cnt	CFG	Output
		(kV)	(? (s)	(A)				
10:00:01	L+PE-	4.00	0	60	0.0	4	5	off
10:01:01	L+PE-	4.00	0	60	0.0	3	5	off
10:02:02	L+PE-	4.00	0	60	0.0	2	5	off
10:03:01	L+PE-	4.00	0	60	0.0	1	5	off
10:04:02	L+PE-	4.00	0	60	0.0	0	5	off

Tested by: EV



GlobTek, Inc.

```
10:05:02 Stop Counter:0
10:05:06 L-PE+ 4.00 0 60 0.0 4 5 off
10:06:06 L-PE+ 4.00 0 60 0.0 3 5 off
10:07:06 L-PE+ 4.00 0 60 0.0 2 5 off
10:08:06 L-PE+ 4.00 0 60 0.0 1 5 off
10:09:06 L-PE+ 4.00 0 60 0.0 0 5 off
10:10:06 Stop Counter:0
10:10:11 L+PE- 4.00 90 60 0.0 4 5 off
10:11:13 L+PE- 4.00 90 60 0.0 3 5 off
10:12:16 L+PE- 4.00 90 60 0.0 2 5 off
10:13:18 L+PE- 4.00 90 60 0.0 1 5 off
10:14:21 L+PE- 4.00 90 60 0.0 0 5 off
10:15:22 Stop Counter:0
10:15:27 L-PE+ 4.00 90 60 0.0 4 5 off
10:16:29 L-PE+ 4.00 90 60 0.0 3 5 off
10:17:31 L-PE+ 4.00 90 60 0.0 2 5 off
10:18:33 L-PE+ 4.00 90 60 0.0 1 5 off
10:19:35 L-PE+ 4.00 90 60 0.0 0 5 off
10:20:37 Stop Counter:0
10:20:42 L+PE- 4.00 180 60 0.0 4 5 off
10:21:47 L+PE- 4.00 180 60 0.0 3 5 off
10:22:52 L+PE- 4.00 180 60 0.0 2 5 off
10:23:56 L+PE- 4.00 180 60 0.0 1 5 off
10:25:00 L+PE- 4.00 180 60 0.0 0 5 off
10:26:03 Stop Counter:0
10:26:08 L-PE+ 4.00 180 60 0.0 4 5 off
10:27:13 L-PE+ 4.00 180 60 0.0 3 5 off
10:28:17 L-PE+ 4.00 180 60 0.0 2 5 off
10:29:22 L-PE+ 4.00 180 60 0.0 1 5 off
10:30:26 L-PE+ 4.00 180 60 0.0 0 5 off
10:31:29 Stop Counter:0
10:31:36 L+PE- 4.00 270 60 0.0 4 5 off
10:32:42 L+PE- 4.00 270 60 0.0 3 5 off
10:33:48 L+PE- 4.00 270 60 0.0 2 5 off
10:34:55 L+PE- 4.00 270 60 0.0 1 5 off
10:36:01 L+PE- 4.00 270 60 0.0 0 5 off
10:37:05 Stop Counter:0
10:37:12 L-PE+ 4.00 270 60 0.0 4 5 off
10:38:19 L-PE+ 4.00 270 60 0.0 3 5 off
10:39:26 L-PE+ 4.00 270 60 0.0 2 5 off
10:40:32 L-PE+ 4.00 270 60 0.0 1 5 off
10:41:38 L-PE+ 4.00 270 60 0.0 0 5 off
10:42:43 Stop Counter:0
10:42:46 PE-N+ 4.00 0 60 0.0 4 5 off
10:43:36 PE-N+ 4.00 0 60 0.0 3 5 off
10:44:27 PE-N+ 4.00 0 60 0.0 2 5 off
10:45:17 PE-N+ 4.00 0 60 0.0 1 5 off
10:46:06 PE-N+ 4.00 0 60 0.0 0 5 off
10:46:57 Stop Counter:0
10:47:01 PE+N- 4.00 0 60 0.0 4 5 off
10:48:01 PE+N- 4.00 0 60 0.0 3 5 off
10:49:01 PE+N- 4.00 0 60 0.0 2 5 off
10:50:01 PE+N- 4.00 0 60 0.0 1 5 off
10:51:01 PE+N- 4.00 0 60 0.0 0 5 off
```

Tested by: EV





GlobTek, Inc.

```
10:52:01 Stop Counter:0
10:52:05 PE-N+ 4.00 90 60 0.1 4 5 off
10:52:06 PE-N+ 4.00 90 60 0.0 4 5 off
10:52:55 PE-N+ 4.00 90 60 0.0 3 5 off
10:53:45 PE-N+ 4.00 90 60 0.0 2 5 off
10:54:35 PE-N+ 4.00 90 60 0.0 1 5 off
10:55:25 PE-N+ 4.00 90 60 0.0 0 5 off
10:56:16 Stop Counter:0
10:59:33 PE+N- 4.00 90 60 0.0 4 5 off
11:00:36 PE+N- 4.00 90 60 0.0 3 5 off
11:01:38 PE+N- 4.00 90 60 0.0 2 5 off
11:02:40 PE+N- 4.00 90 60 0.0 1 5 off
11:03:43 PE+N- 4.00 90 60 0.0 0 5 off
11:04:43 Stop Counter:0
11:04:58 PE-N+ 4.00 180 60 0.0 4 5 off
11:06:03 PE-N+ 4.00 180 60 0.0 3 5 off
11:07:07 PE-N+ 4.00 180 60 0.0 2 5 off
11:08:12 PE-N+ 4.00 180 60 0.0 1 5 off
11:09:16 PE-N+ 4.00 180 60 0.0 0 5 off
11:10:19 Stop Counter:0
11:10:43 PE+N- 4.00 180 60 0.0 4 5 off
11:11:48 PE+N- 4.00 180 60 0.0 3 5 off
11:12:52 PE+N- 4.00 180 60 0.0 2 5 off
11:13:57 PE+N- 4.00 180 60 0.0 1 5 off
11:15:01 PE+N- 4.00 180 60 0.0 0 5 off
11:16:04 Stop Counter:0
11:16:16 PE-N+ 4.00 270 60 0.0 4 5 off
11:17:23 PE-N+ 4.00 270 60 0.0 3 5 off
11:18:29 PE-N+ 4.00 270 60 0.0 2 5 off
11:19:35 PE-N+ 4.00 270 60 0.0 1 5 off
11:20:42 PE-N+ 4.00 270 60 0.0 0 5 off
11:21:46 Stop Counter:0
11:21:57 PE+N- 4.00 270 60 0.0 4 5 off
11:23:03 PE+N- 4.00 270 60 0.0 3 5 off
11:24:09 PE+N- 4.00 270 60 0.0 2 5 off
11:25:15 PE+N- 4.00 270 60 0.0 1 5 off
11:26:22 PE+N- 4.00 270 60 0.0 0 5 off
11:27:26 Stop Counter:0
```

**Result:** Passed @ 4KV Surge test (Line-PE/PE-Neutral).



GlobTek, Inc.

**Model No.: GTM96060-0612 \_ EFT Test with multiple configuration for Enhanced capability**

**A) 2.5KV EFT Test**

**Changes:** Added 2n2 Y2 Cap in parallel with MOV 10D 471K type

With the ESD guard band in place.

Date: 10/20/2015

```

09:47:04 Burst Generator activated!
Time      Output  Volt Freq. Burst Rep T Eut  CFG Output
          (kV) (kHz) (ms) (ms) (A)
09:47:05 L+      2.50  30.0  15   300  0.0  off
09:48:07 Stop
09:48:08 N+      2.50  30.0  15   300  0.0  off
09:49:10 Stop
09:49:11 L+N+    2.50  30.0  15   300  0.0  off
09:50:13 Stop
09:50:14 L-      2.50  30.0  15   300  0.0  off
09:51:16 Stop
09:51:17 N-      2.50  30.0  15   300  0.0  off
09:52:18 Stop
09:52:20 L-N-    2.50  30.0  15   300  0.0  off
09:53:22 Stop

```

**Result:** Passed 2.5KV EFT Test.

**B) 4KV EFT Test**

**Changes:** Added 2n2 Y2 Cap in parallel with MOV 10D 471K type

With the ESD guard band in place.

Date: 10/20/2015

```

09:58:30 Burst Generator activated!
Time      Output  Volt Freq. Burst Rep T Eut  CFG Output
          (kV) (kHz) (ms) (ms) (A)
09:58:46 L+      4.00  25.0  15   300  0.0  off
09:59:46 Stop
09:59:47 N+      4.00  25.0  15   300  0.0  off
10:00:50 Stop
10:00:51 L+N+    4.00  25.0  15   300  0.0  off
10:01:53 Stop
10:01:54 L-      4.00  25.0  15   300  0.0  off
10:02:55 Stop
10:02:56 N-      4.00  25.0  15   300  0.0  off
10:03:57 Stop
10:03:58 L-N-    4.00  25.0  15   300  0.0  off
10:05:01 Stop

```

**Result:** At L- and N-, the LED output flickers a few times, but recovers on its own. No damage on the unit.



GlobTek, Inc.

C) 3KV EFT Test

Changes: Added 2n2 Y2 Cap in parallel with MOV 10D 471K type  
With the ESD guard band in place.

Date: 10/20/2015

```

10:54:26 Burst Generator activated!
Time      Output  Volt Freq. Burst Rep T Eut  CFG Output
          (kV) (kHz) (ms) (ms) (A)
10:54:28 L+      3.00 30.0 15   300 0.0 off
10:55:28 Stop
10:55:29 N+      3.00 30.0 15   300 0.0 off
10:56:32 Stop
10:56:33 L+N+    3.00 30.0 15   300 0.0 off
10:57:35 Stop
10:57:36 L-      3.00 30.0 15   300 0.0 off
10:58:37 Stop
10:58:39 N-      3.00 30.0 15   300 0.0 off
10:59:41 Stop
10:59:42 L-N-    3.00 30.0 15   300 0.0 off
11:00:43 Stop

```

Result: Passed 3KV EFT Test.

D) 3.5KV EFT Test

Changes: Added 2n2 Y2 Cap in parallel with MOV 10D 471K type  
With the ESD guard band in place.

Date: 10/20/2015

```

11:04:00 Burst Generator activated!
Time      Output  Volt Freq. Burst Rep T Eut  CFG Output
          (kV) (kHz) (ms) (ms) (A)
11:04:01 L+      3.50 25.0 15   300 0.0 off
11:05:03 Stop
11:05:04 N+      3.50 25.0 15   300 0.0 off
11:06:07 Stop
11:06:08 L+N+    3.50 25.0 15   300 0.0 off
11:07:09 Stop
11:07:10 L-      3.50 25.0 15   300 0.0 off
11:08:13 Stop
11:08:14 N-      3.50 25.0 15   300 0.0 off
11:09:15 Stop
11:09:16 L-N-    3.50 25.0 15   300 0.0 off
11:10:19 Stop

```

Result: At L-, the LED output flickers a few times, but recovers on its own. No damage on the unit.



GlobTek, Inc.

#### E) 3KV EFT Test\_

Changes: Remove the 2n2 Y2 Cap that is in parallel with MOV.

Date: 10/20/2015

```
11:33:08 Burst Generator activated!
Time      Output  Volt Freq. Burst Rep T Eut  CFG Output
          (kV) (kHz) (ms) (ms) (A)
11:33:09 L+      3.00  30.0  15   300  0.0  off
11:34:12 Stop
11:34:13 N+      3.00  30.0  15   300  0.0  off
11:35:15 Stop
11:35:16 L+N+    3.00  30.0  15   300  0.0  off
11:36:17 Stop
11:36:18 L-      3.00  30.0  15   300  0.0  off
11:37:20 Stop
11:37:22 N-      3.00  30.0  15   300  0.0  off
11:38:23 Stop
11:38:24 L-N-    3.00  30.0  15   300  0.0  off
11:39:26 Stop
```

**Result:** At L- and N-, the LED output flickers a few times, but recovers on its own. No damage on the unit.

#### F) 2.5KV EFT Test

Changes: Remove the 2n2 Y2 Cap that is in parallel with MOV.

Date: 10/20/2015

```
11:44:36 Burst Generator activated!
Time      Output  Volt Freq. Burst Rep T Eut  CFG Output
          (kV) (kHz) (ms) (ms) (A)
11:44:37 L+      2.50  30.0  15   300  0.0  off
11:45:40 N+      2.50  30.0  15   300  0.0  off
11:46:43 Stop
11:46:44 L+N+    2.50  30.0  15   300  0.0  off
11:47:45 Stop
11:47:46 L-      2.50  30.0  15   300  0.0  off
11:48:48 Stop
11:48:50 N-      2.50  30.0  15   300  0.0  off
11:49:51 Stop
11:49:52 L-N-    2.50  30.0  15   300  0.0  off
11:50:53 Stop
```

**Result:** At L- and N-, the LED output flickers a few times, but recovers on its own. No damage on the unit.



GlobTek, Inc.

#### G) 4KV EFT Test

Changes: Remove the 2n2 Y2 Cap that is in parallel with MOV.

Date: 10/20/2015

```
13:13:36 Burst Generator activated!
Time      Output  Volt Freq. Burst Rep T Eut  CFG Output
          (kV) (kHz) (ms) (ms) (A)
13:13:36 L+      4.00  25.0  15   300  0.0  off
13:13:38 L+      4.00  25.0  15   300  0.0  off
13:14:39 N+      4.00  25.0  15   300  0.0  off
13:15:41 Stop
13:15:42 L+N+    4.00  25.0  15   300  0.0  off
13:16:44 Stop
13:16:45 L-      4.00  25.0  15   300  0.0  off
13:17:48 N-      4.00  25.0  15   300  0.0  off
13:18:50 Stop
13:18:51 L-N-    4.00  25.0  15   300  0.0  off
13:19:53 Stop
```

Result: At L- and N-, the LED output flickers a few times, but recovers on its own. No damage on the unit.

#### H) 4KV EFT Test

Changes: With 4n7 Y2 Cap that is in parallel with MOV.

Date: 10/26/2015

```
14:39:06 Burst Generator activated!
Time      Output  Volt Freq. Burst Rep T Eut  CFG Output
          (kV) (kHz) (ms) (ms) (A)
14:39:08 L+      4.00  25.0  15   300  0.0  off
14:40:08 Stop
14:40:09 N+      4.00  25.0  15   300  0.0  off
14:41:12 Stop
14:41:13 L+N+    4.00  25.0  15   300  0.0  off
14:42:15 Stop
14:42:16 L-      4.00  25.0  15   300  0.0  off
14:43:19 Stop
14:43:20 N-      4.00  25.0  15   300  0.0  off
14:44:21 Stop
14:44:22 L-N-    4.00  25.0  15   300  0.0  off
14:45:25 Stop
```

Result: At N-, the LED output flickers a few times, but recovers on its own. No damage on the unit.



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l) 4KV EFT Test

Changes: With 0.1uF X-Cap in parallel with MOV.

Date: 10/26/2015

16:10:56 Burst Generator activated!

Time	Output	Volt (kV)	Freq. (kHz)	Burst (ms)	Rep (ms)	T Eut (A)	CFG	Output
16:10:58	L+	4.00	25.0	15	300	0.0	off	
16:11:59	Stop							
16:12:00	N+	4.00	25.0	15	300	0.0	off	
16:13:01	Stop							
16:13:02	L+N+	4.00	25.0	15	300	0.0	off	
16:14:05	Stop							
16:14:06	L-	4.00	25.0	15	300	0.0	off	
16:15:08	Stop							
16:15:09	N-	4.00	25.0	15	300	0.0	off	
16:16:11	Stop							
16:16:12	L-N-	4.00	25.0	15	300	0.0	off	
16:17:14	Stop							

Result: At L-/N-, the LED output flickers a few times, but recovers on its own. No damage on the unit.



## EFT & SURGE Test Report

**Model No.:** GTM96180-1812

**GROUP I:** USED 10D 471K MOV Type (Original MOV in place)

### A) EFT Test Profile

Test Type: EFT Class II for 2KV Only

Date: 9/29/2015

```
15:23:52 Burst Generator activated!
Time      Output  Volt Freq. Burst Rep T Eut  CFG Output
          (kV) (kHz) (ms) (ms) (A)
15:23:52 L+      2.00  30.0  15   300  0.0  off
15:24:54 Stop
15:24:55 N+      2.00  30.0  15   300  0.0  off
15:25:57 Stop
15:25:58 L+N+    2.00  30.0  15   300  0.0  off
15:26:59 Stop
15:27:00 L-      2.00  30.0  15   300  0.0  off
15:28:03 Stop
15:28:04 N-      2.00  30.0  15   300  0.0  off
15:29:06 Stop
15:29:07 L-N-    2.00  30.0  15   300  0.0  off
15:30:09 Stop
Result: Passed 2KV EFT test.
```

### B) EFT Test Profile

Test Type: EFT Class II for 2.5KV Only

Date: 9/29/2015

```
15:32:07 9/29/2015
15:32:10 Burst Generator activated!
Time      Output  Volt Freq. Burst Rep T Eut  CFG Output
          (kV) (kHz) (ms) (ms) (A)
15:32:12 L+      2.50  30.0  15   300  0.0  off
15:33:13 Stop
15:33:14 N+      2.50  30.0  15   300  0.0  off
15:34:17 Stop
15:34:18 L+N+    2.50  30.0  15   300  0.0  off
15:35:20 Stop
15:35:21 L-      2.50  30.0  15   300  0.0  off
15:36:22 Stop
15:36:23 N-      2.50  30.0  15   300  0.0  off
15:37:25 Stop
15:37:26 L-N-    2.50  30.0  15   300  0.0  off
15:38:28 Stop
Result: Passed 2.5KV EFT test.
```

Tested by: EV



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C) EFT Test Profile

Test Type: EFT Class II for 4KV Only

```

11:40:04 10/21/2015
11:40:23 Burst Generator activated!
Time      Output  Volt Freq. Burst Rep T Eut  CFG Output
          (kV) (kHz) (ms) (ms) (A)
11:40:26 L+      4.00 25.0 15   300 0.0 off
11:41:26 Stop
11:41:27 N+      4.00 25.0 15   300 0.0 off
11:42:29 Stop
11:42:30 L+N+    4.00 25.0 15   300 0.0 off
11:43:33 Stop
11:43:34 L-      4.00 25.0 15   300 0.0 off
11:44:36 Stop
11:44:37 N-      4.00 25.0 15   300 0.0 off
11:45:39 Stop
11:45:40 L-N-    4.00 25.0 15   300 0.0 off
11:46:42 Stop

```

D) SURGE TEST PROFILE

Test type: 1KV SURGE TEST (Line to Neutral)

```

Date: 9/29/2015
10:49:12 Surge Generator activated!
Time      Output  Us  Ph. Rep  EUT  Cnt max Cnt CFG Output
          (kV) (? (s) (A)
10:51:06 L+N-    1.00 0 30 0.2 4 5 off
10:51:36 L+N-    1.00 0 30 0.2 3 5 off
10:52:06 L+N-    1.00 0 30 0.2 2 5 off
10:52:36 L+N-    1.00 0 30 0.2 1 5 off
10:53:06 L+N-    1.00 0 30 0.2 0 5 off
10:53:36 Stop Counter:0
10:53:39 L-N+    1.00 0 30 0.2 4 5 off
10:54:04 L-N+    1.00 0 30 0.2 3 5 off
10:54:30 L-N+    1.00 0 30 0.2 2 5 off
10:54:55 L-N+    1.00 0 30 0.2 1 5 off
10:55:20 L-N+    1.00 0 30 0.2 0 5 off
10:55:45 Stop Counter:0
10:55:48 L+N-    1.00 90 30 0.2 4 5 off
10:56:20 L+N-    1.00 90 30 0.2 3 5 off
10:56:53 L+N-    1.00 90 30 0.2 2 5 off
10:57:25 L+N-    1.00 90 30 0.2 1 5 off
10:57:57 L+N-    1.00 90 30 0.2 0 5 off
10:58:29 Stop Counter:0
10:58:32 L-N+    1.00 90 30 0.2 4 5 off
10:59:04 L-N+    1.00 90 30 0.2 3 5 off
10:59:37 L-N+    1.00 90 30 0.2 2 5 off
11:00:09 L-N+    1.00 90 30 0.2 1 5 off
11:00:41 L-N+    1.00 90 30 0.2 0 5 off
11:01:13 Stop Counter:0

```

Tested by: EV





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11:01:17	L+N-	1.00	180	30	0.2	4	5	off
11:01:52	L+N-	1.00	180	30	0.2	3	5	off
11:02:26	L+N-	1.00	180	30	0.2	2	5	off
11:03:01	L+N-	1.00	180	30	0.2	1	5	off
11:03:34	L+N-	1.00	180	30	0.2	0	5	off
11:04:07	Stop Counter:0							
11:04:12	L-N+	1.00	180	30	0.2	4	5	off
11:04:46	L-N+	1.00	180	30	0.2	3	5	off
11:05:21	L-N+	1.00	180	30	0.2	2	5	off
11:05:55	L-N+	1.00	180	30	0.2	1	5	off
11:06:29	L-N+	1.00	180	30	0.2	0	5	off
11:07:02	Stop Counter:0							
11:07:05	L+N-	1.00	270	30	0.2	4	5	off
11:07:30	L+N-	1.00	270	30	0.2	3	5	off
11:07:55	L+N-	1.00	270	30	0.2	2	5	off
11:08:20	L+N-	1.00	270	30	0.2	1	5	off
11:08:45	L+N-	1.00	270	30	0.2	0	5	off
11:09:10	Stop Counter:0							
11:09:16	L-N+	1.00	270	30	0.2	4	5	off
11:09:52	L-N+	1.00	270	30	0.2	3	5	off
11:10:28	L-N+	1.00	270	30	0.2	2	5	off
11:11:05	L-N+	1.00	270	30	0.2	1	5	off
11:11:41	L-N+	1.00	270	30	0.2	0	5	off

11:12:15 Stop Counter:0  
**Result: Passed 1KV Surge test (Line to Neutral).**

E) SURGE TEST PROFILE

Test type: 1.25KV SURGE TEST (Line to Neutral)

Date: 9/29/2015

11:14:12 Surge Generator activated!

Time	Output	Us (kV)	Ph. Rep (? (s)	EUT (A)	Cnt max	Cnt	CFG	Output
11:16:35	L+N-	1.25	0 30	0.2	4	5	off	
11:17:04	L+N-	1.25	0 30	0.2	3	5	off	
11:17:35	L+N-	1.25	0 30	0.2	2	5	off	
11:18:05	L+N-	1.25	0 30	0.2	1	5	off	
11:18:35	L+N-	1.25	0 30	0.2	0	5	off	
11:19:05	Stop Counter:0							
11:19:09	L-N+	1.25	0 30	0.2	4	5	off	
11:19:39	L-N+	1.25	0 30	0.2	3	5	off	
11:20:09	L-N+	1.25	0 30	0.2	2	5	off	
11:20:39	L-N+	1.25	0 30	0.2	1	5	off	
11:21:09	L-N+	1.25	0 30	0.2	0	5	off	
11:21:39	Stop Counter:0							
11:21:44	L+N-	1.25	90 30	0.2	4	5	off	
11:22:16	L+N-	1.25	90 30	0.2	3	5	off	
11:22:48	L+N-	1.25	90 30	0.2	2	5	off	
11:23:20	L+N-	1.25	90 30	0.2	1	5	off	
11:23:52	L+N-	1.25	90 30	0.2	0	5	off	
11:24:24	Stop Counter:0							
11:24:29	L-N+	1.25	90 30	0.2	4	5	off	
11:25:01	L-N+	1.25	90 30	0.2	3	5	off	
11:25:33	L-N+	1.25	90 30	0.2	2	5	off	

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```

11:26:05 L-N+    1.25  90  30  0.2  1  5  off
11:26:37 L-N+    1.25  90  30  0.2  0  5  off
11:27:09 Stop Counter:0
11:27:14 L+N-    1.25 180  30  0.2  4  5  off
11:27:48 L+N-    1.25 180  30  0.2  3  5  off
11:28:23 L+N-    1.25 180  30  0.2  2  5  off
11:28:57 L+N-    1.25 180  30  0.2  1  5  off
11:29:31 L+N-    1.25 180  30  0.2  0  5  off
11:30:04 Stop Counter:0
11:30:09 L-N+    1.25 180  30  0.2  4  5  off
11:30:43 L-N+    1.25 180  30  0.2  3  5  off
11:31:18 L-N+    1.25 180  30  0.2  2  5  off
11:31:52 L-N+    1.25 180  30  0.2  1  5  off
11:32:26 L-N+    1.25 180  30  0.2  0  5  off
11:32:59 Stop Counter:0
11:33:06 L+N-    1.25 270  30  0.2  4  5  off
11:33:42 L+N-    1.25 270  30  0.2  3  5  off
11:34:18 L+N-    1.25 270  30  0.2  2  5  off
11:34:55 L+N-    1.25 270  30  0.2  1  5  off
11:35:31 L+N-    1.25 270  30  0.2  0  5  off
11:36:05 Stop Counter:0
11:36:12 L-N+    1.25 270  30  0.2  4  5  off
11:36:48 L-N+    1.25 270  30  0.2  3  5  off
11:37:24 L-N+    1.25 270  30  0.2  2  5  off
11:38:01 L-N+    1.25 270  30  0.2  1  5  off
11:38:37 L-N+    1.25 270  30  0.2  0  5  off
11:39:10 Stop Counter:0

```

**Result: Passed 1.25KV Surge test (Line to Neutral).**

#### F) SURGE TEST PROFILE

Test type: 2KV SURGE TEST (Line to Neutral)

Date: 10/15/2015

10:53:12 Surge Generator activated!

```

Time      Output  Us  Ph. Rep  EUT  Cnt max Cnt CFG Output
          (kV)  (? (s) (A)
10:53:47 L+N-    2.00  0  60  0.1  4  5  off
10:54:47 L+N-    2.00  0  60  0.1  3  5  off
10:55:47 L+N-    2.00  0  60  0.1  2  5  off
10:56:47 L+N-    2.00  0  60  0.1  1  5  off
10:57:48 L+N-    2.00  0  60  0.1  0  5  off
10:58:48 L+N-    2.00  0  60  0.0  0  5  off
10:58:48 Stop Counter:0
10:58:51 L-N+    2.00  0  60  0.1  4  5  off
10:59:51 L-N+    2.00  0  60  0.1  3  5  off
11:00:50 L-N+    2.00  0  60  0.1  2  5  off
11:00:51 L-N+    2.00  0  60  0.2  2  5  off
11:01:51 L-N+    2.00  0  60  0.2  1  5  off
11:02:51 L-N+    2.00  0  60  0.2  0  5  off
11:03:51 Stop Counter:0
11:03:55 L+N-    2.00  90  60  0.2  4  5  off
11:04:57 L+N-    2.00  90  60  0.2  3  5  off
11:05:59 L+N-    2.00  90  60  0.2  2  5  off
11:07:02 L+N-    2.00  90  60  0.2  1  5  off

```

Tested by: EV



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11:08:04	L+N-	2.00	90	60	0.2	0	5	off
11:09:05	L+N-	2.00	90	60	0.0	0	5	off
11:09:05	Stop Counter:0							
11:09:09	L-N+	2.00	90	60	0.1	4	5	off
11:10:11	L-N+	2.00	90	60	0.1	3	5	off
11:11:13	L-N+	2.00	90	60	0.1	2	5	off
11:12:16	L-N+	2.00	90	60	0.2	1	5	off
11:13:18	L-N+	2.00	90	60	0.2	0	5	off
11:14:20	Stop Counter:0							
11:14:24	L+N-	2.00	180	60	0.2	4	5	off
11:15:29	L+N-	2.00	180	60	0.2	3	5	off
11:16:33	L+N-	2.00	180	60	0.2	2	5	off
11:17:38	L+N-	2.00	180	60	0.2	1	5	off
11:18:41	L+N-	2.00	180	60	0.2	0	5	off
11:19:44	L+N-	2.00	180	60	0.0	0	5	off
11:19:45	Stop Counter:0							
11:19:49	L-N+	2.00	180	60	0.1	4	5	off
11:20:54	L-N+	2.00	180	60	0.2	3	5	off
11:21:58	L-N+	2.00	180	60	0.2	2	5	off
11:23:03	L-N+	2.00	180	60	0.2	1	5	off
11:24:06	L-N+	2.00	180	60	0.2	0	5	off
11:25:09	L-N+	2.00	180	60	0.1	0	5	off
11:25:10	Stop Counter:0							
11:25:12	L+N-	2.00	270	60	0.2	4	5	off
11:26:02	L+N-	2.00	270	60	0.2	3	5	off
11:26:52	L+N-	2.00	270	60	0.2	2	5	off
11:27:43	L+N-	2.00	270	60	0.2	1	5	off
11:28:32	L+N-	2.00	270	60	0.2	0	5	off
11:29:23	L+N-	2.00	270	60	0.0	0	5	off
11:29:24	Stop Counter:0							
11:29:30	L-N+	2.00	270	60	0.2	4	5	off
11:30:36	L-N+	2.00	270	60	0.2	3	5	off
11:31:42	L-N+	2.00	270	60	0.2	2	5	off
11:32:49	L-N+	2.00	270	60	0.2	1	5	off
11:33:55	L-N+	2.00	270	60	0.2	0	5	off

**Result: Passed 2KV Surge test (Line to Neutral).**

**Note: Used 10D 471K type MOV.**

### G) SURGE TEST PROFILE

Test type: 4KV SURGE TEST (Line-PE/PE-Neutral)

Date: 10/26/2015

08:26:02 Surge Generator activated!

Time	Output	Us	Ph. Rep	EUT	Cnt max	Cnt	CFG	Output
		(kV)	(? (s)	(A)				
08:26:21	L+PE-	4.00	0	60	0.0	4	5	off
08:27:19	L+PE-	4.00	0	60	0.1	3	5	off
08:28:18	L+PE-	4.00	0	60	0.1	2	5	off
08:29:19	L+PE-	4.00	0	60	0.1	1	5	off
08:30:19	L+PE-	4.00	0	60	0.1	0	5	off
08:31:19	Stop Counter:0							
08:31:23	L-PE+	4.00	0	60	0.1	4	5	off
08:32:23	L-PE+	4.00	0	60	0.1	3	5	off

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08:33:23	L-PE+	4.00	0	60	0.1	2	5	off
08:34:23	L-PE+	4.00	0	60	0.1	1	5	off
08:35:25	L-PE+	4.00	0	60	0.0	0	5	off
08:36:23	Stop Counter:0							
08:36:27	L+PE-	4.00	90	60	0.1	4	5	off
08:37:17	L+PE-	4.00	90	60	0.1	3	5	off
08:38:09	L+PE-	4.00	90	60	0.0	2	5	off
08:38:57	L+PE-	4.00	90	60	0.1	1	5	off
08:38:59	L+PE-	4.00	90	60	0.0	1	5	off
08:39:47	L+PE-	4.00	90	60	0.1	0	5	off
08:40:37	Stop Counter:0							
08:40:42	L-PE+	4.00	90	60	0.1	4	5	off
08:41:44	L-PE+	4.00	90	60	0.0	3	5	off
08:42:47	L-PE+	4.00	90	60	0.1	2	5	off
08:43:49	L-PE+	4.00	90	60	0.1	1	5	off
08:44:51	L-PE+	4.00	90	60	0.1	0	5	off
08:45:53	Stop Counter:0							
08:45:58	L+PE-	4.00	180	60	0.1	4	5	off
08:47:03	L+PE-	4.00	180	60	0.1	3	5	off
08:48:07	L+PE-	4.00	180	60	0.1	2	5	off
08:49:11	L+PE-	4.00	180	60	0.1	1	5	off
08:50:15	L+PE-	4.00	180	60	0.1	0	5	off
08:51:19	Stop Counter:0							
08:51:24	L-PE+	4.00	180	60	0.1	4	5	off
08:52:29	L-PE+	4.00	180	60	0.1	3	5	off
08:53:33	L-PE+	4.00	180	60	0.1	2	5	off
08:54:37	L-PE+	4.00	180	60	0.1	1	5	off
08:55:42	L-PE+	4.00	180	60	0.1	0	5	off
08:56:43	Stop Counter:0							
08:56:47	L+PE-	4.00	270	60	0.1	4	5	off
08:57:37	L+PE-	4.00	270	60	0.1	3	5	off
08:58:28	L+PE-	4.00	270	60	0.1	2	5	off
08:59:18	L+PE-	4.00	270	60	0.1	1	5	off
09:00:08	L+PE-	4.00	270	60	0.1	0	5	off
09:00:58	Stop Counter:0							
09:01:01	L-PE+	4.00	270	60	0.1	4	5	off
09:01:51	L-PE+	4.00	270	60	0.1	3	5	off
09:02:41	L-PE+	4.00	270	60	0.1	2	5	off
09:03:31	L-PE+	4.00	270	60	0.1	1	5	off
09:04:21	L-PE+	4.00	270	60	0.1	0	5	off
09:05:12	Stop Counter:0							
09:05:16	PE-N+	4.00	0	60	0.1	4	5	off
09:06:16	PE-N+	4.00	0	60	0.1	3	5	off
09:07:16	PE-N+	4.00	0	60	0.1	2	5	off
09:08:16	PE-N+	4.00	0	60	0.1	1	5	off
09:09:16	PE-N+	4.00	0	60	0.1	0	5	off
09:10:17	Stop Counter:0							
09:10:21	PE+N-	4.00	0	60	0.1	4	5	off
09:11:21	PE+N-	4.00	0	60	0.1	3	5	off
09:12:21	PE+N-	4.00	0	60	0.1	2	5	off
09:13:21	PE+N-	4.00	0	60	0.1	1	5	off
09:14:21	PE+N-	4.00	0	60	0.1	0	5	off
09:15:22	Stop Counter:0							
09:15:26	PE-N+	4.00	90	60	0.1	4	5	off
09:16:28	PE-N+	4.00	90	60	0.1	3	5	off
09:17:30	PE-N+	4.00	90	60	0.1	2	5	off

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```

09:18:32 PE-N+ 4.00 90 60 0.0 1 5 off
09:19:35 PE-N+ 4.00 90 60 0.1 0 5 off
09:20:37 Stop Counter:0
09:20:41 PE+N- 4.00 90 60 0.1 4 5 off
09:21:43 PE+N- 4.00 90 60 0.1 3 5 off
09:22:46 PE+N- 4.00 90 60 0.1 2 5 off
09:23:48 PE+N- 4.00 90 60 0.1 1 5 off
09:24:51 PE+N- 4.00 90 60 0.1 0 5 off
09:25:52 Stop Counter:0
09:25:57 PE-N+ 4.00 180 60 0.1 4 5 off
09:27:02 PE-N+ 4.00 180 60 0.1 3 5 off
09:27:03 PE-N+ 4.00 180 60 0.0 3 5 off
09:28:06 PE-N+ 4.00 180 60 0.1 2 5 off
09:29:10 PE-N+ 4.00 180 60 0.1 1 5 off
09:30:15 PE-N+ 4.00 180 60 0.1 0 5 off
09:31:16 Stop Counter:0
09:31:22 PE+N- 4.00 180 60 0.1 4 5 off
09:32:27 PE+N- 4.00 180 60 0.1 3 5 off
09:33:31 PE+N- 4.00 180 60 0.1 2 5 off
09:34:35 PE+N- 4.00 180 60 0.1 1 5 off
09:35:39 PE+N- 4.00 180 60 0.0 0 5 off
09:36:43 Stop Counter:0
09:36:49 PE-N+ 4.00 270 60 0.1 4 5 off
09:37:56 PE-N+ 4.00 270 60 0.1 3 5 off
09:39:02 PE-N+ 4.00 270 60 0.1 2 5 off
09:40:09 PE-N+ 4.00 270 60 0.1 1 5 off
09:41:15 PE-N+ 4.00 270 60 0.1 0 5 off
09:42:19 Stop Counter:0
09:42:22 PE+N- 4.00 270 60 0.1 4 5 off
09:43:12 PE+N- 4.00 270 60 0.0 3 5 off
09:44:02 PE+N- 4.00 270 60 0.0 2 5 off
09:44:52 PE+N- 4.00 270 60 0.0 1 5 off
09:45:42 PE+N- 4.00 270 60 0.0 0 5 off
09:46:33 Stop Counter:0

```

**Result: Passed 4KV Surge test (Line-PE/PE-Neutral).**

## GROUP II: USED 14D 471K MOV Type

### A) SURGE TEST PROFILE

Test type: 1.5KV SURGE TEST (Line to Neutral)

Date: 10/14/2015

13:43:12 Surge Generator activated!

```

Time      Output  Us  Ph. Rep  EUT  Cnt max Cnt CFG Output
          (kV)  (? (s) (A)
13:44:56 L+N-    1.50  0 60  0.2  4  5  off
13:45:45 L+N-    1.50  0 60  0.2  3  5  off
13:46:36 L+N-    1.50  0 60  0.2  2  5  off
13:47:26 L+N-    1.50  0 60  0.2  1  5  off
13:48:16 L+N-    1.50  0 60  0.2  0  5  off
13:49:06 Stop Counter:0
13:49:09 L-N+    1.50  0 60  0.1  4  5  off
13:50:09 L-N+    1.50  0 60  0.2  3  5  off
13:51:09 L-N+    1.50  0 60  0.2  2  5  off

```

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13:52:09	L-N+	1.50	0	60	0.2	1	5	off
13:53:10	L-N+	1.50	0	60	0.2	0	5	off
13:54:10	Stop Counter:0							
13:54:14	L+N-	1.50	90	60	0.2	4	5	off
13:55:16	L+N-	1.50	90	60	0.2	3	5	off
13:56:18	L+N-	1.50	90	60	0.2	2	5	off
13:57:21	L+N-	1.50	90	60	0.2	1	5	off
13:58:23	L+N-	1.50	90	60	0.2	0	5	off
13:59:24	Stop Counter:0							
13:59:28	L-N+	1.50	90	60	0.2	4	5	off
14:00:30	L-N+	1.50	90	60	0.2	3	5	off
14:01:32	L-N+	1.50	90	60	0.2	2	5	off
14:02:35	L-N+	1.50	90	60	0.2	1	5	off
14:03:37	L-N+	1.50	90	60	0.2	0	5	off
14:04:38	Stop Counter:0							
14:04:43	L+N-	1.50	180	60	0.2	4	5	off
14:05:47	L+N-	1.50	180	60	0.2	3	5	off
14:06:52	L+N-	1.50	180	60	0.2	2	5	off
14:07:57	L+N-	1.50	180	60	0.2	1	5	off
14:09:01	L+N-	1.50	180	60	0.2	0	5	off
14:10:03	Stop Counter:0							
14:10:08	L-N+	1.50	180	60	0.2	4	5	off
14:11:12	L-N+	1.50	180	60	0.2	3	5	off
14:12:17	L-N+	1.50	180	60	0.2	2	5	off
14:13:21	L-N+	1.50	180	60	0.2	1	5	off
14:14:26	L-N+	1.50	180	60	0.2	0	5	off
14:15:28	Stop Counter:0							
14:15:34	L+N-	1.50	270	60	0.2	4	5	off
14:16:40	L+N-	1.50	270	60	0.2	3	5	off
14:17:47	L+N-	1.50	270	60	0.2	2	5	off
14:18:53	L+N-	1.50	270	60	0.2	1	5	off
14:20:00	L+N-	1.50	270	60	0.2	0	5	off
14:21:04	L+N-	1.50	270	60	0.1	0	5	off
14:21:04	Stop Counter:0							
14:21:22	L-N+	1.50	270	60	0.2	4	5	off
14:22:16	L-N+	1.50	270	60	0.2	3	5	off
14:23:23	L-N+	1.50	270	60	0.2	2	5	off
14:24:29	L-N+	1.50	270	60	0.2	1	5	off
14:25:36	L-N+	1.50	270	60	0.2	0	5	off
14:26:40	Stop Counter:0							
<b>Result: Passed 1.5KV Surge test (Line to Neutral).</b>								
<b>Note: Used 14D 471K Type MOV</b>								

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EFT & SURGE Test Report

MODEL: Model No.: GTM96300-3014.5-2.5-T3A  
Group I: With 10D 471K MOV type (Original MOV in place)

A) EFT Test Profile

TYPE OF TEST: EFT @ 2KV ONLY

Date: 9/29/2015

14:54:56 Burst Generator activated!

Time	Output	Volt (kV)	Freq. (kHz)	Burst (ms)	Rep T (ms)	Eut (A)	CFG	Output
14:54:57	L+	2.00	30.0	15	300	0.2	off	
14:55:58	Stop							
14:55:59	N+	2.00	30.0	15	300	0.2	off	
14:57:00	Stop							
14:57:01	L+N+	2.00	30.0	15	300	0.2	off	
14:58:04	Stop							
14:58:05	L-	2.00	30.0	15	300	0.2	off	
14:59:07	Stop							
14:59:08	N-	2.00	30.0	15	300	0.2	off	
15:00:09	Stop							
15:00:10	L-N-	2.00	30.0	15	300	0.2	off	
15:01:12	Stop							
15:01:13	L+PE+N+	2.00	30.0	15	300	0.2	off	
15:02:15	Stop							
15:02:16	L-PE-N-	2.00	30.0	15	300	0.2	off	
15:03:17	Stop							

Result: Passed 2KV EFT test.

B) EFT Test Profile

TYPE OF TEST: EFT @ 2.5KV ONLY

Date: 9/29/2015

15:07:42 Burst Generator activated!

Time	Output	Volt (kV)	Freq. (kHz)	Burst (ms)	Rep T (ms)	Eut (A)	CFG	Output
15:07:43	L+	2.50	30.0	15	300	0.2	off	
15:08:44	Stop							
15:08:45	N+	2.50	30.0	15	300	0.2	off	
15:09:48	Stop							
15:09:49	L+N+	2.50	30.0	15	300	0.2	off	
15:10:52	L-	2.50	30.0	15	300	0.2	off	
15:11:54	Stop							
15:11:55	N-	2.50	30.0	15	300	0.2	off	
15:12:57	Stop							
15:12:58	L-N-	2.50	30.0	15	300	0.2	off	
15:13:59	Stop							
15:14:00	L+PE+N+	2.50	30.0	15	300	0.2	off	
15:15:03	Stop							
15:15:04	L-PE-N-	2.50	30.0	15	300	0.2	off	
15:16:06	Stop							

Result: Passed 2.5KV EFT test.

Tested by: EV



GlobTek, Inc.

C) EFT Test Profile

TYPE OF TEST: EFT FOR 4KV ONLY

Date: 10/21/2015

10:58:11 Burst Generator activated!

Time	Output	Volt (kV)	Freq. (kHz)	Burst (ms)	Rep (ms)	T Eut (A)	CFG	Output
10:58:42	L+	4.00	25.0	15	300	0.2	off	
10:59:44	Stop							
10:59:45	N+	4.00	25.0	15	300	0.2	off	
11:00:47	Stop							
11:00:48	L+N+	4.00	25.0	15	300	0.2	off	
11:01:50	Stop							
11:01:51	L-	4.00	25.0	15	300	0.2	off	
11:02:54	Stop							
11:02:55	N-	4.00	25.0	15	300	0.2	off	
11:03:57	Stop							
11:03:58	L-N-	4.00	25.0	15	300	0.2	off	
11:05:00	Stop							
11:05:01	L+PE+N+	4.00	25.0	15	300	0.2	off	
11:06:03	Stop							
11:06:04	L-PE-N-	4.00	25.0	15	300	0.2	off	
11:07:06	Stop							

Result: Passed 4KV EFT test.

D) SURGE Test Profile

TYPE OF TEST: SURGE TEST @ 2KV ONLY (Line-PE/PE-Neutral)

Date: 9/30/2015

09:12:12 Surge Generator activated!

Time	Output	Us (kV)	Ph. (? (s)	Rep (s)	EUT (A)	Cnt	max Cnt	CFG	Output
09:12:48	L+PE-	2.00	0	60	0.2	4	5	off	
09:13:48	L+PE-	2.00	0	60	0.2	3	5	off	
09:14:48	L+PE-	2.00	0	60	0.2	2	5	off	
09:15:48	L+PE-	2.00	0	60	0.2	1	5	off	
09:16:48	L+PE-	2.00	0	60	0.2	0	5	off	
09:17:49	Stop	Counter:0							
09:17:52	L-PE+	2.00	0	60	0.2	4	5	off	
09:18:52	L-PE+	2.00	0	60	0.2	3	5	off	
09:19:51	L-PE+	2.00	0	60	0.2	2	5	off	
09:20:52	L-PE+	2.00	0	60	0.2	1	5	off	
09:21:52	L-PE+	2.00	0	60	0.2	0	5	off	
09:22:52	Stop	Counter:0							
09:22:56	L+PE-	2.00	90	60	0.2	4	5	off	
09:23:58	L+PE-	2.00	90	60	0.2	3	5	off	
09:25:00	L+PE-	2.00	90	60	0.2	2	5	off	
09:26:02	L+PE-	2.00	90	60	0.2	1	5	off	
09:27:05	L+PE-	2.00	90	60	0.2	0	5	off	
09:28:07	Stop	Counter:0							
09:28:10	L-PE+	2.00	90	60	0.2	4	5	off	
09:29:12	L-PE+	2.00	90	60	0.2	3	5	off	
09:30:15	L-PE+	2.00	90	60	0.2	2	5	off	
09:31:17	L-PE+	2.00	90	60	0.2	1	5	off	

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09:32:20	L-PE+	2.00	90	60	0.2	0	5	off
09:33:21	Stop Counter:0							
09:33:26	L+PE-	2.00	180	60	0.2	4	5	off
09:34:30	L+PE-	2.00	180	60	0.2	3	5	off
09:35:35	L+PE-	2.00	180	60	0.2	2	5	off
09:36:39	L+PE-	2.00	180	60	0.2	1	5	off
09:37:44	L+PE-	2.00	180	60	0.2	0	5	off
09:38:46	Stop Counter:0							
09:38:50	L-PE+	2.00	180	60	0.2	4	5	off
09:39:55	L-PE+	2.00	180	60	0.2	3	5	off
09:40:59	L-PE+	2.00	180	60	0.2	2	5	off
09:42:04	L-PE+	2.00	180	60	0.2	1	5	off
09:43:08	L-PE+	2.00	180	60	0.2	0	5	off
09:44:10	Stop Counter:0							
09:44:17	L+PE-	2.00	270	60	0.2	4	5	off
09:45:22	L+PE-	2.00	270	60	0.2	3	5	off
09:46:30	L+PE-	2.00	270	60	0.2	2	5	off
09:47:36	L+PE-	2.00	270	60	0.2	1	5	off
09:48:42	L+PE-	2.00	270	60	0.2	0	5	off
09:49:46	Stop Counter:0							
09:49:52	L-PE+	2.00	270	60	0.2	4	5	off
09:50:59	L-PE+	2.00	270	60	0.2	3	5	off
09:52:05	L-PE+	2.00	270	60	0.2	2	5	off
09:53:11	L-PE+	2.00	270	60	0.2	1	5	off
09:54:18	L-PE+	2.00	270	60	0.2	0	5	off
09:55:21	Stop Counter:0							
09:55:24	PE-N+	2.00	0	60	0.2	4	5	off
09:56:24	PE-N+	2.00	0	60	0.2	3	5	off
09:57:24	PE-N+	2.00	0	60	0.2	2	5	off
09:58:24	PE-N+	2.00	0	60	0.2	1	5	off
09:59:24	PE-N+	2.00	0	60	0.2	0	5	off
10:00:24	Stop Counter:0							
10:00:27	PE+N-	2.00	0	60	0.2	4	5	off
10:01:27	PE+N-	2.00	0	60	0.2	3	5	off
10:02:27	PE+N-	2.00	0	60	0.2	2	5	off
10:03:27	PE+N-	2.00	0	60	0.2	1	5	off
10:04:28	PE+N-	2.00	0	60	0.2	0	5	off
10:05:28	Stop Counter:0							
10:05:31	PE-N+	2.00	90	60	0.2	4	5	off
10:06:33	PE-N+	2.00	90	60	0.2	3	5	off
10:07:35	PE-N+	2.00	90	60	0.2	2	5	off
10:08:38	PE-N+	2.00	90	60	0.2	1	5	off
10:09:41	PE-N+	2.00	90	60	0.2	0	5	off
10:10:41	Stop Counter:0							
10:10:45	PE+N-	2.00	90	60	0.2	4	5	off
10:11:47	PE+N-	2.00	90	60	0.2	3	5	off
10:12:49	PE+N-	2.00	90	60	0.2	2	5	off
10:13:52	PE+N-	2.00	90	60	0.2	1	5	off
10:14:54	PE+N-	2.00	90	60	0.2	0	5	off
10:15:55	Stop Counter:0							
10:16:00	PE-N+	2.00	180	60	0.2	4	5	off
10:17:05	PE-N+	2.00	180	60	0.2	3	5	off
10:18:09	PE-N+	2.00	180	60	0.2	2	5	off
10:19:13	PE-N+	2.00	180	60	0.2	1	5	off
10:20:18	PE-N+	2.00	180	60	0.2	0	5	off
10:21:21	Stop Counter:0							

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```

10:21:25 PE+N- 2.00 180 60 0.2 4 5 off
10:22:30 PE+N- 2.00 180 60 0.2 3 5 off
10:23:34 PE+N- 2.00 180 60 0.2 2 5 off
10:24:38 PE+N- 2.00 180 60 0.2 1 5 off
10:25:43 PE+N- 2.00 180 60 0.2 0 5 off
10:26:45 Stop Counter:0
10:26:52 PE-N+ 2.00 270 60 0.2 4 5 off
10:27:58 PE-N+ 2.00 270 60 0.2 3 5 off
10:29:05 PE-N+ 2.00 270 60 0.2 2 5 off
10:30:10 PE-N+ 2.00 270 60 0.2 1 5 off
10:31:17 PE-N+ 2.00 270 60 0.2 0 5 off
10:32:21 Stop Counter:0
10:32:27 PE+N- 2.00 270 60 0.2 4 5 off
10:33:34 PE+N- 2.00 270 60 0.2 3 5 off
10:34:40 PE+N- 2.00 270 60 0.2 2 5 off
10:35:46 PE+N- 2.00 270 60 0.2 1 5 off
10:36:53 PE+N- 2.00 270 60 0.2 0 5 off
10:37:56 Stop Counter:0

```

Result: Passed 2KV Surge test (Line-PE/PE-Neutral).

#### E) SURGE Test Profile

TYPE OF TEST: SURGE TEST @ 2.5KV ONLY (Line-PE/PE-Neutral)

Date: 9/30/2015

13:06:40 Surge Generator activated!

```

Time      Output  Us   Ph. Rep  EUT  Cnt max Cnt CFG Output
          (kV)  (? (s) (A)
13:06:48 L+PE-  2.50  0 60 0.2 4 5 off
13:07:49 L+PE-  2.50  0 60 0.2 3 5 off
13:08:49 L+PE-  2.50  0 60 0.2 2 5 off
13:09:49 L+PE-  2.50  0 60 0.2 1 5 off
13:10:49 L+PE-  2.50  0 60 0.2 0 5 off
13:11:50 Stop Counter:0
13:11:53 L-PE+  2.50  0 60 0.2 4 5 off
13:12:53 L-PE+  2.50  0 60 0.2 3 5 off
13:13:53 L-PE+  2.50  0 60 0.2 2 5 off
13:14:53 L-PE+  2.50  0 60 0.2 1 5 off
13:15:53 L-PE+  2.50  0 60 0.2 0 5 off
13:16:54 Stop Counter:0
13:16:59 L+PE-  2.50  90 60 0.2 4 5 off
13:18:01 L+PE-  2.50  90 60 0.2 3 5 off
13:19:03 L+PE-  2.50  90 60 0.2 2 5 off
13:20:05 L+PE-  2.50  90 60 0.2 1 5 off
13:21:08 L+PE-  2.50  90 60 0.2 0 5 off
13:22:09 Stop Counter:0
13:22:13 L-PE+  2.50  90 60 0.2 4 5 off
13:23:15 L-PE+  2.50  90 60 0.2 3 5 off
13:24:18 L-PE+  2.50  90 60 0.2 2 5 off
13:25:20 L-PE+  2.50  90 60 0.2 1 5 off
13:26:22 L-PE+  2.50  90 60 0.2 0 5 off
13:27:24 Stop Counter:0
13:27:26 L+PE-  2.50 180 60 0.2 4 5 off
13:28:16 L+PE-  2.50 180 60 0.2 3 5 off
13:29:06 L+PE-  2.50 180 60 0.2 2 5 off
13:29:56 L+PE-  2.50 180 60 0.2 1 5 off

```

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13:30:46	L+PE-	2.50	180	60	0.2	0	5	off
13:31:38	Stop Counter:0							
13:31:40	L-PE+	2.50	180	60	0.2	4	5	off
13:32:30	L-PE+	2.50	180	60	0.2	3	5	off
13:33:20	L-PE+	2.50	180	60	0.2	2	5	off
13:34:10	L-PE+	2.50	180	60	0.2	1	5	off
13:35:01	L-PE+	2.50	180	60	0.2	0	5	off
13:35:51	Stop Counter:0							
13:35:54	L+PE-	2.50	270	60	0.2	4	5	off
13:36:44	L+PE-	2.50	270	60	0.2	3	5	off
13:37:34	L+PE-	2.50	270	60	0.2	2	5	off
13:38:24	L+PE-	2.50	270	60	0.2	1	5	off
13:39:14	L+PE-	2.50	270	60	0.2	0	5	off
13:40:04	Stop Counter:0							
13:40:10	L-PE+	2.50	270	60	0.2	4	5	off
13:41:17	L-PE+	2.50	270	60	0.2	3	5	off
13:42:23	L-PE+	2.50	270	60	0.2	2	5	off
13:43:30	L-PE+	2.50	270	60	0.2	1	5	off
13:44:36	L-PE+	2.50	270	60	0.2	0	5	off
13:45:39	Stop Counter:0							
13:45:42	PE-N+	2.50	0	60	0.2	4	5	off
13:46:42	PE-N+	2.50	0	60	0.2	3	5	off
13:47:42	PE-N+	2.50	0	60	0.2	2	5	off
13:48:42	PE-N+	2.50	0	60	0.2	1	5	off
13:49:43	PE-N+	2.50	0	60	0.2	0	5	off
13:50:43	Stop Counter:0							
13:50:46	PE+N-	2.50	0	60	0.2	4	5	off
13:51:46	PE+N-	2.50	0	60	0.2	3	5	off
13:52:46	PE+N-	2.50	0	60	0.2	2	5	off
13:53:46	PE+N-	2.50	0	60	0.2	1	5	off
13:54:46	PE+N-	2.50	0	60	0.2	0	5	off
13:55:47	Stop Counter:0							
13:55:51	PE-N+	2.50	90	60	0.2	4	5	off
13:56:53	PE-N+	2.50	90	60	0.2	3	5	off
13:57:55	PE-N+	2.50	90	60	0.2	2	5	off
13:58:57	PE-N+	2.50	90	60	0.2	1	5	off
14:00:00	PE-N+	2.50	90	60	0.2	0	5	off
14:01:01	Stop Counter:0							
14:01:04	PE+N-	2.50	90	60	0.2	4	5	off
14:01:54	PE+N-	2.50	90	60	0.2	3	5	off
14:02:44	PE+N-	2.50	90	60	0.2	2	5	off
14:03:34	PE+N-	2.50	90	60	0.2	1	5	off
14:04:24	PE+N-	2.50	90	60	0.2	0	5	off
14:05:14	Stop Counter:0							
14:05:19	PE-N+	2.50	180	60	0.2	4	5	off
14:06:23	PE-N+	2.50	180	60	0.2	3	5	off
14:07:27	PE-N+	2.50	180	60	0.2	2	5	off
14:08:32	PE-N+	2.50	180	60	0.2	1	5	off
14:09:36	PE-N+	2.50	180	60	0.2	0	5	off
14:10:39	Stop Counter:0							
14:10:43	PE+N-	2.50	180	60	0.2	4	5	off
14:11:48	PE+N-	2.50	180	60	0.2	3	5	off
14:12:52	PE+N-	2.50	180	60	0.2	2	5	off
14:13:57	PE+N-	2.50	180	60	0.2	1	5	off
14:15:01	PE+N-	2.50	180	60	0.2	0	5	off
14:16:03	Stop Counter:0							

Tested by: EV



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```

14:16:10 PE-N+ 2.50 270 60 0.2 4 5 off
14:17:16 PE-N+ 2.50 270 60 0.2 3 5 off
14:18:23 PE-N+ 2.50 270 60 0.2 2 5 off
14:19:29 PE-N+ 2.50 270 60 0.2 1 5 off
14:20:35 PE-N+ 2.50 270 60 0.2 0 5 off
14:21:39 Stop Counter:0
14:21:45 PE+N- 2.50 270 60 0.2 4 5 off
14:22:52 PE+N- 2.50 270 60 0.2 3 5 off
14:23:58 PE+N- 2.50 270 60 0.2 2 5 off
14:25:05 PE+N- 2.50 270 60 0.2 1 5 off
14:26:11 PE+N- 2.50 270 60 0.2 0 5 off
14:27:15 Stop Counter:0

```

Result: Passed 2.5KV Surge test (Line-PE/PE-Neutral).

### F) SURGE Test Profile

TYPE OF TEST: SURGE TEST @ 1KV ONLY (Line to Neutral)

Date: 10/01/2015

10:30:32 Surge Generator activated!

```

Time      Output  Us   Ph. Rep  EUT  Cnt max Cnt CFG Output
10:30:40 L+N-    1.00  0  60  0.2  4  5  off
10:31:41 L+N-    1.00  0  60  0.2  3  5  off
10:32:40 L+N-    1.00  0  60  0.2  2  5  off
10:33:41 L+N-    1.00  0  60  0.2  1  5  off
10:34:41 L+N-    1.00  0  60  0.2  0  5  off
10:35:41 Stop Counter:0
10:35:44 L-N+    1.00  0  60  0.2  4  5  off
10:36:44 L-N+    1.00  0  60  0.2  3  5  off
10:37:44 L-N+    1.00  0  60  0.2  2  5  off
10:38:45 L-N+    1.00  0  60  0.2  1  5  off
10:39:44 L-N+    1.00  0  60  0.2  0  5  off
10:40:45 Stop Counter:0
10:40:48 L+N-    1.00  90  60  0.2  4  5  off
10:41:50 L+N-    1.00  90  60  0.2  3  5  off
10:42:53 L+N-    1.00  90  60  0.2  2  5  off
10:43:55 L+N-    1.00  90  60  0.2  1  5  off
10:44:57 L+N-    1.00  90  60  0.2  0  5  off
10:45:59 Stop Counter:0
10:46:03 L-N+    1.00  90  60  0.2  4  5  off
10:47:05 L-N+    1.00  90  60  0.2  3  5  off
10:48:07 L-N+    1.00  90  60  0.2  2  5  off
10:49:09 L-N+    1.00  90  60  0.2  1  5  off
10:50:12 L-N+    1.00  90  60  0.2  0  5  off
10:51:13 Stop Counter:0
10:51:17 L+N-    1.00  180  60  0.2  4  5  off
10:52:22 L+N-    1.00  180  60  0.2  3  5  off
10:53:27 L+N-    1.00  180  60  0.2  2  5  off
10:54:31 L+N-    1.00  180  60  0.2  1  5  off
10:55:36 L+N-    1.00  180  60  0.2  0  5  off
10:56:37 Stop Counter:0
10:56:42 L-N+    1.00  180  60  0.2  4  5  off
10:57:47 L-N+    1.00  180  60  0.2  3  5  off
10:58:51 L-N+    1.00  180  60  0.2  2  5  off
10:59:55 L-N+    1.00  180  60  0.2  1  5  off
11:00:59 L-N+    1.00  180  60  0.2  0  5  off

```

Tested by: EV



GlobTek, Inc.

```

11:02:02 Stop Counter:0
11:02:08 L+N- 1.00 270 60 0.2 4 5 off
11:03:14 L+N- 1.00 270 60 0.2 3 5 off
11:04:20 L+N- 1.00 270 60 0.2 2 5 off
11:05:27 L+N- 1.00 270 60 0.2 1 5 off
11:06:34 L+N- 1.00 270 60 0.2 0 5 off
11:07:37 Stop Counter:0
11:07:43 L-N+ 1.00 270 60 0.2 4 5 off
11:08:49 L-N+ 1.00 270 60 0.2 3 5 off
11:09:56 L-N+ 1.00 270 60 0.2 2 5 off
11:11:02 L-N+ 1.00 270 60 0.2 1 5 off
11:12:09 L-N+ 1.00 270 60 0.2 0 5 off
11:13:13 Stop Counter:0

```

Result: Passed 1KV Surge test (Line to Neutral).

### G) SURGE Test Profile

TYPE OF TEST: SURGE TEST FOR CLASS III 1.25KV ONLY (Line to Neutral)

Date: 10/01/2015

```

11:15:32 Surge Generator activated!
Time Output Us Ph. Rep EUT Cnt max Cnt CFG Output
11:15:46 L+N- 1.25 0 60 0.2 4 5 off
11:16:46 L+N- 1.25 0 60 0.2 3 5 off
11:17:45 L+N- 1.25 0 60 0.2 2 5 off
11:18:46 L+N- 1.25 0 60 0.2 1 5 off
11:19:46 L+N- 1.25 0 60 0.2 0 5 off
11:20:47 Stop Counter:0
11:20:49 L-N+ 1.25 0 60 0.2 4 5 off
11:21:50 L-N+ 1.25 0 60 0.2 3 5 off
11:22:49 L-N+ 1.25 0 60 0.2 2 5 off
11:23:50 L-N+ 1.25 0 60 0.2 1 5 off
11:24:50 L-N+ 1.25 0 60 0.2 0 5 off
11:25:50 Stop Counter:0
11:25:54 L+N- 1.25 90 60 0.2 4 5 off
11:26:56 L+N- 1.25 90 60 0.2 3 5 off
11:27:58 L+N- 1.25 90 60 0.2 2 5 off
11:29:00 L+N- 1.25 90 60 0.2 1 5 off
11:30:03 L+N- 1.25 90 60 0.2 0 5 off
11:31:05 Stop Counter:0
11:31:08 L-N+ 1.25 90 60 0.2 4 5 off
11:32:11 L-N+ 1.25 90 60 0.2 3 5 off
11:33:13 L-N+ 1.25 90 60 0.2 2 5 off
11:34:15 L-N+ 1.25 90 60 0.2 1 5 off
11:35:18 L-N+ 1.25 90 60 0.2 0 5 off
11:36:18 Stop Counter:0
11:36:22 L+N- 1.25 180 60 0.2 4 5 off
11:37:12 L+N- 1.25 180 60 0.2 3 5 off
11:38:02 L+N- 1.25 180 60 0.2 2 5 off
11:38:52 L+N- 1.25 180 60 0.2 1 5 off
11:39:42 L+N- 1.25 180 60 0.2 0 5 off
11:40:32 Stop Counter:0
11:40:37 L-N+ 1.25 180 60 0.2 4 5 off
11:41:41 L-N+ 1.25 180 60 0.2 3 5 off
11:42:46 L-N+ 1.25 180 60 0.2 2 5 off
11:43:50 L-N+ 1.25 180 60 0.2 1 5 off

```

Tested by: EV



GlobTek, Inc.

```
11:44:55 L-N+ 1.25 180 60 0.2 0 5 off
11:45:57 Stop Counter:0
11:46:04 L+N- 1.25 270 60 0.2 4 5 off
11:47:09 L+N- 1.25 270 60 0.2 3 5 off
11:48:16 L+N- 1.25 270 60 0.2 2 5 off
11:49:22 L+N- 1.25 270 60 0.2 1 5 off
11:50:30 L+N- 1.25 270 60 0.2 0 5 off
11:51:33 Stop Counter:0
11:51:39 L-N+ 1.25 270 60 0.2 4 5 off
11:52:45 L-N+ 1.25 270 60 0.2 3 5 off
11:53:52 L-N+ 1.25 270 60 0.2 2 5 off
11:54:58 L-N+ 1.25 270 60 0.2 1 5 off
11:56:05 L-N+ 1.25 270 60 0.2 0 5 off
11:57:09 Stop Counter:0
```

Result: Passed 1.25KV Surge test (Line to Neutral).

#### H) SURGE Test Profile

TYPE OF TEST: SURGE TEST @2KV ONLY (Line to Neutral)

Date: 10/15/2015

```
09:03:32 Surge Generator activated!
Time Output Us Ph. Rep EUT Cnt max Cnt CFG Output
09:04:54 L+N- 2.00 0 60 0.2 4 5 off
09:05:54 L+N- 2.00 0 60 0.2 3 5 off
09:06:54 L+N- 2.00 0 60 0.2 2 5 off
09:07:54 L+N- 2.00 0 60 0.2 1 5 off
09:08:55 L+N- 2.00 0 60 0.2 0 5 off
09:09:55 Stop Counter:0
09:09:58 L-N+ 2.00 0 60 0.2 4 5 off
09:10:48 L-N+ 2.00 0 60 0.2 3 5 off
09:11:38 L-N+ 2.00 0 60 0.2 2 5 off
09:12:28 L-N+ 2.00 0 60 0.2 1 5 off
09:13:18 L-N+ 2.00 0 60 0.2 0 5 off
09:14:09 Stop Counter:0
09:14:12 L+N- 2.00 90 60 0.3 4 5 off
09:15:14 L+N- 2.00 90 60 0.3 3 5 off
09:16:16 L+N- 2.00 90 60 0.3 2 5 off
09:17:19 L+N- 2.00 90 60 0.3 1 5 off
09:18:21 L+N- 2.00 90 60 0.3 0 5 off
09:19:22 Stop Counter:0
09:19:25 L-N+ 2.00 90 60 0.2 4 5 off
09:20:15 L-N+ 2.00 90 60 0.3 3 5 off
09:21:05 L-N+ 2.00 90 60 0.3 2 5 off
09:21:55 L-N+ 2.00 90 60 0.3 1 5 off
09:22:45 L-N+ 2.00 90 60 0.3 0 5 off
09:23:35 Stop Counter:0
09:23:38 L+N- 2.00 180 60 0.2 4 5 off
09:24:28 L+N- 2.00 180 60 0.2 3 5 off
09:25:18 L+N- 2.00 180 60 0.2 2 5 off
09:26:08 L+N- 2.00 180 60 0.2 1 5 off
09:26:58 L+N- 2.00 180 60 0.2 0 5 off
09:27:49 Stop Counter:0
09:27:51 L-N+ 2.00 180 60 0.2 4 5 off
09:28:41 L-N+ 2.00 180 60 0.3 3 5 off
09:29:31 L-N+ 2.00 180 60 0.3 2 5 off
```

Tested by: EV



GlobTek, Inc.

```

09:30:22 L-N+      2.00 180  60  0.3  1  5  off
09:31:12 L-N+      2.00 180  60  0.3  0  5  off
09:32:02 L-N+      2.00 180  60  0.2  0  5  off
09:32:02 Stop Counter:0
09:32:08 L+N-      2.00 270  60  0.2  4  5  off
09:33:15 L+N-      2.00 270  60  0.2  3  5  off
09:34:21 L+N-      2.00 270  60  0.2  2  5  off
09:35:27 L+N-      2.00 270  60  0.2  1  5  off
09:36:34 L+N-      2.00 270  60  0.2  0  5  off
09:37:37 Stop Counter:0
09:37:43 L-N+      2.00 270  60  0.2  4  5  off
09:38:50 L-N+      2.00 270  60  0.3  3  5  off
09:39:56 L-N+      2.00 270  60  0.3  2  5  off
09:41:03 L-N+      2.00 270  60  0.3  1  5  off
09:42:09 L-N+      2.00 270  60  0.3  0  5  off
09:43:13 Stop Counter:0

```

Result: Passed 2KV Surge test (Line to Neutral).

Note: MOV used 10D 471K type.

### Group II: With 14D 471K MOV type

#### A) SURGE Test Profile

TYPE OF TEST: SURGE TEST @ 4KV ONLY (Line-PE/PE-Neutral)

Date: 10/13/2015

14:13:40 Surge Generator activated!

```

Time      Output  Us   Ph. Rep  EUT  Cnt max Cnt CFG Output
          (kV)  (? (s) (A)
14:14:23 L+PE-    4.00  0  60  0.2  4  5  off
14:15:12 L+PE-    4.00  0  60  0.2  3  5  off
14:16:03 L+PE-    4.00  0  60  0.2  2  5  off
14:16:53 L+PE-    4.00  0  60  0.2  1  5  off
14:17:43 L+PE-    4.00  0  60  0.2  0  5  off
14:18:33 Stop Counter:0
14:18:37 L-PE+    4.00  0  60  0.2  4  5  off
14:19:37 L-PE+    4.00  0  60  0.2  3  5  off
14:20:37 L-PE+    4.00  0  60  0.2  2  5  off
14:21:37 L-PE+    4.00  0  60  0.2  1  5  off
14:22:37 L-PE+    4.00  0  60  0.2  0  5  off
14:23:38 Stop Counter:0
14:23:42 L+PE-    4.00  90  60  0.2  4  5  off
14:24:44 L+PE-    4.00  90  60  0.2  3  5  off
14:25:46 L+PE-    4.00  90  60  0.2  2  5  off
14:26:49 L+PE-    4.00  90  60  0.2  1  5  off
14:27:51 L+PE-    4.00  90  60  0.2  0  5  off
14:28:52 Stop Counter:0
14:28:57 L-PE+    4.00  90  60  0.2  4  5  off
14:29:59 L-PE+    4.00  90  60  0.2  3  5  off
14:31:01 L-PE+    4.00  90  60  0.2  2  5  off
14:32:03 L-PE+    4.00  90  60  0.2  1  5  off
14:33:06 L-PE+    4.00  90  60  0.2  0  5  off
14:34:07 Stop Counter:0
14:34:12 L+PE-    4.00 180  60  0.2  4  5  off

```

Tested by: EV



GlobeTek, Inc.

14:35:17	L+PE-	4.00	180	60	0.2	3	5	off
14:36:22	L+PE-	4.00	180	60	0.2	2	5	off
14:37:26	L+PE-	4.00	180	60	0.2	1	5	off
14:38:30	L+PE-	4.00	180	60	0.2	0	5	off
14:39:32	Stop Counter:0							
14:39:36	L-PE+	4.00	180	60	0.2	4	5	off
14:40:26	L-PE+	4.00	180	60	0.2	3	5	off
14:41:16	L-PE+	4.00	180	60	0.2	2	5	off
14:42:06	L-PE+	4.00	180	60	0.2	1	5	off
14:42:56	L-PE+	4.00	180	60	0.2	0	5	off
14:43:46	Stop Counter:0							
14:43:53	L+PE-	4.00	270	60	0.2	4	5	off
14:45:00	L+PE-	4.00	270	60	0.2	3	5	off
14:46:06	L+PE-	4.00	270	60	0.2	2	5	off
14:47:13	L+PE-	4.00	270	60	0.2	1	5	off
14:48:19	L+PE-	4.00	270	60	0.2	0	5	off
14:49:23	Stop Counter:0							
14:49:30	L-PE+	4.00	270	60	0.2	4	5	off
14:50:36	L-PE+	4.00	270	60	0.2	3	5	off
14:51:43	L-PE+	4.00	270	60	0.2	2	5	off
14:52:49	L-PE+	4.00	270	60	0.2	1	5	off
14:53:56	L-PE+	4.00	270	60	0.2	0	5	off
14:54:59	Stop Counter:0							
14:55:03	PE-N+	4.00	0	60	0.2	4	5	off
14:56:03	PE-N+	4.00	0	60	0.2	3	5	off
14:57:02	PE-N+	4.00	0	60	0.2	2	5	off
14:58:03	PE-N+	4.00	0	60	0.2	1	5	off
14:59:03	PE-N+	4.00	0	60	0.2	0	5	off
15:00:03	Stop Counter:0							
15:00:07	PE+N-	4.00	0	60	0.2	4	5	off
15:00:57	PE+N-	4.00	0	60	0.2	3	5	off
15:01:47	PE+N-	4.00	0	60	0.2	2	5	off
15:02:37	PE+N-	4.00	0	60	0.2	1	5	off
15:03:27	PE+N-	4.00	0	60	0.2	0	5	off
15:04:17	Stop Counter:0							
15:04:22	PE-N+	4.00	90	60	0.2	4	5	off
15:05:24	PE-N+	4.00	90	60	0.2	3	5	off
15:06:26	PE-N+	4.00	90	60	0.2	2	5	off
15:07:29	PE-N+	4.00	90	60	0.2	1	5	off
15:08:31	PE-N+	4.00	90	60	0.2	0	5	off
15:09:33	Stop Counter:0							
15:09:37	PE+N-	4.00	90	60	0.2	4	5	off
15:10:39	PE+N-	4.00	90	60	0.2	3	5	off
15:11:41	PE+N-	4.00	90	60	0.2	2	5	off
15:12:44	PE+N-	4.00	90	60	0.2	1	5	off
15:13:46	PE+N-	4.00	90	60	0.2	0	5	off
15:14:48	Stop Counter:0							
15:14:53	PE-N+	4.00	180	60	0.2	4	5	off
15:15:58	PE-N+	4.00	180	60	0.2	3	5	off
15:17:02	PE-N+	4.00	180	60	0.2	2	5	off
15:18:07	PE-N+	4.00	180	60	0.2	1	5	off
15:19:11	PE-N+	4.00	180	60	0.2	0	5	off
15:20:14	Stop Counter:0							
15:20:19	PE+N-	4.00	180	60	0.2	4	5	off
15:21:24	PE+N-	4.00	180	60	0.2	3	5	off
15:22:28	PE+N-	4.00	180	60	0.2	2	5	off

Tested by: EV





Globaltek, Inc.

```

15:23:32 PE+N- 4.00 180 60 0.2 1 5 off
15:24:37 PE+N- 4.00 180 60 0.2 0 5 off
15:25:39 Stop Counter:0
15:25:46 PE-N+ 4.00 270 60 0.2 4 5 off
15:26:52 PE-N+ 4.00 270 60 0.2 3 5 off
15:27:59 PE-N+ 4.00 270 60 0.2 2 5 off
15:29:05 PE-N+ 4.00 270 60 0.2 1 5 off
15:30:12 PE-N+ 4.00 270 60 0.2 0 5 off
15:31:15 Stop Counter:0
15:31:22 PE+N- 4.00 270 60 0.2 4 5 off
15:32:29 PE+N- 4.00 270 60 0.2 3 5 off
15:33:35 PE+N- 4.00 270 60 0.2 2 5 off
15:34:41 PE+N- 4.00 270 60 0.2 1 5 off
15:35:48 PE+N- 4.00 270 60 0.2 0 5 off
15:36:51 Stop Counter:0

```

Result: Passed 4KV Surge test (Line-PE/PE-Neutral).

Note: MOV used 14D 471K type.

### B) SURGE Test Profile

TYPE OF TEST: SURGE TEST @ 1.5KV ONLY(Line to Neutral)

Date: 10/13/2015

10:57:32 Surge Generator activated!

```

Time      Output  Us   Ph. Rep  EUT  Cnt max  Cnt CFG Output
10:58:18 L+N-    1.50  0  60  0.2  4  5  off
10:59:17 L+N-    1.50  0  60  0.2  3  5  off
11:00:18 L+N-    1.50  0  60  0.2  2  5  off
11:01:17 L+N-    1.50  0  60  0.2  1  5  off
11:02:18 L+N-    1.50  0  60  0.2  0  5  off
11:03:18 Stop Counter:0
11:03:21 L-N+    1.50  0  60  0.2  4  5  off
11:04:22 L-N+    1.50  0  60  0.2  3  5  off
11:05:21 L-N+    1.50  0  60  0.2  2  5  off
11:06:22 L-N+    1.50  0  60  0.2  1  5  off
11:07:21 L-N+    1.50  0  60  0.2  0  5  off
11:08:21 Stop Counter:0
11:08:25 L+N-    1.50  90  60  0.3  4  5  off
11:09:27 L+N-    1.50  90  60  0.3  3  5  off
11:10:30 L+N-    1.50  90  60  0.3  2  5  off
11:11:32 L+N-    1.50  90  60  0.3  1  5  off
11:12:35 L+N-    1.50  90  60  0.3  0  5  off
11:13:36 Stop Counter:0
11:13:40 L-N+    1.50  90  60  0.2  4  5  off
11:14:42 L-N+    1.50  90  60  0.3  3  5  off
11:15:44 L-N+    1.50  90  60  0.3  2  5  off
11:16:47 L-N+    1.50  90  60  0.3  1  5  off
11:17:48 L-N+    1.50  90  60  0.3  0  5  off
11:18:50 Stop Counter:0
11:18:53 L+N-    1.50  180  60  0.2  4  5  off
11:19:43 L+N-    1.50  180  60  0.2  3  5  off
11:20:33 L+N-    1.50  180  60  0.2  2  5  off
11:21:23 L+N-    1.50  180  60  0.2  1  5  off
11:22:13 L+N-    1.50  180  60  0.2  0  5  off
11:23:03 Stop Counter:0
11:23:08 L-N+    1.50  180  60  0.2  4  5  off

```

Tested by: EV



GlobeTek, Inc.

11:24:12	L-N+	1.50	180	60	0.3	3	5	off
11:25:17	L-N+	1.50	180	60	0.3	2	5	off
11:26:21	L-N+	1.50	180	60	0.3	1	5	off
11:27:26	L-N+	1.50	180	60	0.3	0	5	off
11:28:28	L-N+	1.50	180	60	0.2	0	5	off
11:28:29	Stop Counter:0							
11:28:35	L+N-	1.50	270	60	0.3	4	5	off
11:29:41	L+N-	1.50	270	60	0.3	3	5	off
11:30:47	L+N-	1.50	270	60	0.3	2	5	off
11:31:54	L+N-	1.50	270	60	0.3	1	5	off
11:33:01	L+N-	1.50	270	60	0.3	0	5	off
11:34:04	Stop Counter:0							
11:34:10	L-N+	1.50	270	60	0.2	4	5	off
11:35:16	L-N+	1.50	270	60	0.3	3	5	off
11:36:23	L-N+	1.50	270	60	0.3	2	5	off
11:37:29	L-N+	1.50	270	60	0.3	1	5	off
11:38:36	L-N+	1.50	270	60	0.3	0	5	off
11:39:39	Stop Counter:0							

Result: Passed 1.5KV Surge test (Line to Neutral).

Note: MOV used 14D 471K type.

### C) SURGE Test Profile

TYPE OF TEST: SURGE TEST @ 2KV ONLY (Line to Neutral)

Date: 10/13/2015

13:10:32	Surge Generator activated!									
Time	Output	Us	Ph.	Rep	EUT	Cnt	max	Cnt	CFG	Output
13:11:51	L+N-	2.00	0	60	0.2	4	5	5	off	
13:12:51	L+N-	2.00	0	60	0.2	3	5	5	off	
13:13:51	L+N-	2.00	0	60	0.2	2	5	5	off	
13:14:51	L+N-	2.00	0	60	0.2	1	5	5	off	
13:15:51	L+N-	2.00	0	60	0.2	0	5	5	off	
13:16:52	Stop Counter:0									
13:16:55	L-N+	2.00	0	60	0.2	4	5	5	off	
13:17:55	L-N+	2.00	0	60	0.2	3	5	5	off	
13:18:55	L-N+	2.00	0	60	0.2	2	5	5	off	
13:19:56	L-N+	2.00	0	60	0.2	1	5	5	off	
13:20:55	L-N+	2.00	0	60	0.2	0	5	5	off	
13:21:56	Stop Counter:0									
13:21:59	L+N-	2.00	90	60	0.2	4	5	5	off	
13:23:02	L+N-	2.00	90	60	0.2	3	5	5	off	
13:24:04	L+N-	2.00	90	60	0.2	2	5	5	off	
13:25:06	L+N-	2.00	90	60	0.2	1	5	5	off	
13:26:08	L+N-	2.00	90	60	0.2	0	5	5	off	
13:27:10	Stop Counter:0									
13:27:14	L-N+	2.00	90	60	0.2	4	5	5	off	
13:28:16	L-N+	2.00	90	60	0.2	3	5	5	off	
13:29:18	L-N+	2.00	90	60	0.2	2	5	5	off	
13:30:20	L-N+	2.00	90	60	0.2	1	5	5	off	
13:31:22	L-N+	2.00	90	60	0.2	0	5	5	off	
13:32:24	Stop Counter:0									
13:32:28	L+N-	2.00	180	60	0.3	4	5	5	off	
13:33:33	L+N-	2.00	180	60	0.3	3	5	5	off	
13:34:37	L+N-	2.00	180	60	0.3	2	5	5	off	
13:35:42	L+N-	2.00	180	60	0.3	1	5	5	off	
13:36:46	L+N-	2.00	180	60	0.3	0	5	5	off	

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13:37:48 Stop Counter:0

13:37:53	L-N+	2.00	180	60	0.2	4	5	off
13:38:57	L-N+	2.00	180	60	0.3	3	5	off
13:40:02	L-N+	2.00	180	60	0.3	2	5	off
13:41:06	L-N+	2.00	180	60	0.3	1	5	off
13:42:10	L-N+	2.00	180	60	0.3	0	5	off

13:43:13 Stop Counter:0

13:43:19	L+N-	2.00	270	60	0.2	4	5	off
13:44:26	L+N-	2.00	270	60	0.2	3	5	off
13:45:32	L+N-	2.00	270	60	0.2	2	5	off
13:46:38	L+N-	2.00	270	60	0.2	1	5	off
13:47:45	L+N-	2.00	270	60	0.2	0	5	off

13:48:49 Stop Counter:0

13:48:55	L-N+	2.00	270	60	0.2	4	5	off
13:50:01	L-N+	2.00	270	60	0.2	3	5	off
13:51:08	L-N+	2.00	270	60	0.3	2	5	off
13:52:14	L-N+	2.00	270	60	0.3	1	5	off
13:53:21	L-N+	2.00	270	60	0.3	0	5	off

13:54:25 Stop Counter:0

Result: Passed 2KV Surge test (Line to Neutral).

Note: MOV used 14D 471K type.



GlobTek, Inc.

### EFT & SURGE Test Report

Model No.: GTM96600-6015-3.0-T3A

Group 1: With 10D 471K MOV type (Original MOV in place)

#### A) EFT Test Profile

TYPE OF TEST: EFT @ 2KV ONLY

Date: 10/19/2015

13:40:41 Burst Generator activated!

Time	Output	Volt (kV)	Freq. (kHz)	Burst (ms)	Rep T (ms)	Eut (A)	CFG Output
13:40:42	L+	2.00	30.0	15	300	0.3	off
13:41:44	Stop						
13:41:45	N+	2.00	30.0	15	300	0.3	off
13:42:47	Stop						
13:42:48	L+N+	2.00	30.0	15	300	0.3	off
13:43:51	Stop						
13:43:52	L-	2.00	30.0	15	300	0.3	off
13:44:54	Stop						
13:44:55	N-	2.00	30.0	15	300	0.3	off
13:45:56	Stop						
13:45:57	L-N-	2.00	30.0	15	300	0.3	off
13:47:00	Stop						
13:47:01	L+PE+N+	2.00	30.0	15	300	0.3	off
13:48:03	Stop						
13:48:04	L-PE-N-	2.00	30.0	15	300	0.3	off
13:49:07	Stop						

Result: Passed 2KV EFT test.

#### B) TYPE OF TEST: EFT @ 2.5KV ONLY

Date: 10/19/2015

13:59:36 Burst Generator activated!

Time	Output	Volt (kV)	Freq. (kHz)	Burst (ms)	Rep T (ms)	Eut (A)	CFG Output
13:59:38	L+	2.50	30.0	15	300	0.2	off
14:00:38	Stop						
14:00:40	N+	2.50	30.0	15	300	0.2	off
14:01:42	Stop						
14:01:43	L+N+	2.50	30.0	15	300	0.2	off
14:02:45	Stop						
14:02:46	L-	2.50	30.0	15	300	0.2	off
14:03:48	Stop						
14:03:49	N-	2.50	30.0	15	300	0.2	off
14:04:51	Stop						
14:04:52	L-N-	2.50	30.0	15	300	0.2	off
14:05:53	Stop						
14:05:54	L+PE+N+	2.50	30.0	15	300	0.2	off
14:06:56	Stop						
14:06:57	L-PE-N-	2.50	30.0	15	300	0.2	off
14:07:59	Stop						

Result: Passed 2.5KV EFT test.

Tested by: EV



GlobTek, Inc.

C) EFT Test Profile

TYPE OF TEST: EFT @ 4KV ONLY

Date: 10/21/2015

10:17:58 Burst Generator activated!

Time	Output	Volt (kV)	Freq. (kHz)	Burst (ms)	Rep T (ms)	Eut (A)	CFG	Output
10:18:00	L+	4.00	25.0	15	300	0.2	off	
10:19:01	N+	4.00	25.0	15	300	0.2	off	
10:20:03	Stop							
10:20:04	L+N+	4.00	25.0	15	300	0.2	off	
10:20:21	L+N+	4.00	25.0	15	300	0.3	off	
10:21:06	Stop							
10:21:07	L-	4.00	25.0	15	300	0.3	off	
10:22:09	Stop							
10:22:10	N-	4.00	25.0	15	300	0.3	off	
10:23:12	Stop							
10:23:13	L-N-	4.00	25.0	15	300	0.3	off	
10:24:15	Stop							
10:24:16	L+PE+N+	4.00	25.0	15	300	0.3	off	
10:25:17	Stop							
10:25:18	L-PE-N-	4.00	25.0	15	300	0.3	off	
10:26:20	Stop							

Result: Passed 4KV EFT test.

D) SURGE Test Profile

TYPE OF TEST: SURGE TEST @ 1KV ONLY (Line to Line)

Date: 10/19/2015

14:18:36 Surge Generator activated!

Time	Output	Us	Ph.	Rep	EUT	Cnt max	Cnt	CFG	Output
14:18:50	L+N-	1.00	0	60	0.3	4	5	off	
14:19:50	L+N-	1.00	0	60	0.3	3	5	off	
14:20:51	L+N-	1.00	0	60	0.3	2	5	off	
14:21:51	L+N-	1.00	0	60	0.3	1	5	off	
14:22:51	L+N-	1.00	0	60	0.3	0	5	off	
14:23:52	Stop	Counter:0							
14:23:56	L-N+	1.00	0	60	0.3	4	5	off	
14:24:56	L-N+	1.00	0	60	0.3	3	5	off	
14:25:55	L-N+	1.00	0	60	0.3	2	5	off	
14:26:56	L-N+	1.00	0	60	0.3	1	5	off	
14:27:56	L-N+	1.00	0	60	0.3	0	5	off	
14:28:57	Stop	Counter:0							
14:29:00	L+N-	1.00	90	60	0.3	4	5	off	
14:29:50	L+N-	1.00	90	60	0.3	3	5	off	
14:30:40	L+N-	1.00	90	60	0.3	2	5	off	
14:31:30	L+N-	1.00	90	60	0.3	1	5	off	
14:32:20	L+N-	1.00	90	60	0.3	0	5	off	
14:33:10	Stop	Counter:0							
14:33:14	L-N+	1.00	90	60	0.3	4	5	off	
14:34:16	L-N+	1.00	90	60	0.3	3	5	off	
14:35:18	L-N+	1.00	90	60	0.3	2	5	off	
14:36:21	L-N+	1.00	90	60	0.3	1	5	off	
14:37:23	L-N+	1.00	90	60	0.3	0	5	off	

Tested by: EV



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```

14:38:25 Stop Counter:0
14:38:30 L+N- 1.00 180 60 0.4 4 5 off
14:39:34 L+N- 1.00 180 60 0.4 3 5 off
14:40:39 L+N- 1.00 180 60 0.4 2 5 off
14:41:43 L+N- 1.00 180 60 0.4 1 5 off
14:42:47 L+N- 1.00 180 60 0.4 0 5 off
14:43:50 Stop Counter:0
14:43:54 L-N+ 1.00 180 60 0.3 4 5 off
14:44:59 L-N+ 1.00 180 60 0.4 3 5 off
14:46:03 L-N+ 1.00 180 60 0.4 2 5 off
14:47:08 L-N+ 1.00 180 60 0.4 1 5 off
14:48:12 L-N+ 1.00 180 60 0.4 0 5 off
14:49:15 Stop Counter:0
14:49:21 L+N- 1.00 270 60 0.3 4 5 off
14:50:27 L+N- 1.00 270 60 0.3 3 5 off
14:51:34 L+N- 1.00 270 60 0.3 2 5 off
14:52:40 L+N- 1.00 270 60 0.3 1 5 off
14:53:46 L+N- 1.00 270 60 0.3 0 5 off
14:54:50 Stop Counter:0
14:54:56 L-N+ 1.00 270 60 0.3 4 5 off
14:56:03 L-N+ 1.00 270 60 0.3 3 5 off
14:57:09 L-N+ 1.00 270 60 0.3 2 5 off
14:58:15 L-N+ 1.00 270 60 0.4 1 5 off
14:59:22 L-N+ 1.00 270 60 0.4 0 5 off
15:00:26 L-N+ 1.00 270 60 0.3 0 5 off
15:00:26 Stop Counter:0

```

Result: Passed 1KV Surge test (Line to Line).

### E) SURGE Test Profile

TYPE OF TEST: SURGE TEST @ 1.25KV ONLY (Line to Line)

Date: 10/19/2015

```

15:14:16 Surge Generator activated!
Time      Output  Us   Ph. Rep  EUT  Cnt max Cnt CFG Output
15:14:29 L+N-    1.25  0   60   0.3  4   5   off
15:15:28 L+N-    1.25  0   60   0.3  3   5   off
15:16:29 L+N-    1.25  0   60   0.3  2   5   off
15:17:28 L+N-    1.25  0   60   0.3  1   5   off
15:18:29 L+N-    1.25  0   60   0.3  0   5   off
15:19:30 Stop Counter:0
15:19:32 L-N+    1.25  0   60   0.3  4   5   off
15:20:32 L-N+    1.25  0   60   0.3  3   5   off
15:21:33 L-N+    1.25  0   60   0.3  2   5   off
15:22:32 L-N+    1.25  0   60   0.3  1   5   off
15:23:32 L-N+    1.25  0   60   0.3  0   5   off
15:24:33 Stop Counter:0
15:24:37 L+N-    1.25  90  60   0.4  4   5   off
15:25:39 L+N-    1.25  90  60   0.4  3   5   off
15:26:41 L+N-    1.25  90  60   0.4  2   5   off
15:27:44 L+N-    1.25  90  60   0.4  1   5   off
15:28:46 L+N-    1.25  90  60   0.4  0   5   off
15:29:47 Stop Counter:0
15:29:51 L-N+    1.25  90  60   0.3  4   5   off
15:30:53 L-N+    1.25  90  60   0.3  3   5   off
15:31:55 L-N+    1.25  90  60   0.3  2   5   off

```

Tested by: EV



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15:32:58	L-N+	1.25	90	60	0.3	1	5	off
15:34:00	L-N+	1.25	90	60	0.3	0	5	off
15:35:01	Stop Counter:0							
15:35:06	L+N-	1.25	180	60	0.3	4	5	off
15:36:11	L+N-	1.25	180	60	0.4	3	5	off
15:37:15	L+N-	1.25	180	60	0.4	2	5	off
15:38:19	L+N-	1.25	180	60	0.4	1	5	off
15:39:23	L+N-	1.25	180	60	0.4	0	5	off
15:40:26	Stop Counter:0							
15:40:31	L-N+	1.25	180	60	0.3	4	5	off
15:41:36	L-N+	1.25	180	60	0.3	3	5	off
15:42:40	L-N+	1.25	180	60	0.4	2	5	off
15:43:44	L-N+	1.25	180	60	0.4	1	5	off
15:44:49	L-N+	1.25	180	60	0.4	0	5	off
15:45:51	Stop Counter:0							
15:45:57	L+N-	1.25	270	60	0.4	4	5	off
15:47:03	L+N-	1.25	270	60	0.4	3	5	off
15:48:10	L+N-	1.25	270	60	0.4	2	5	off
15:49:16	L+N-	1.25	270	60	0.4	1	5	off
15:50:23	L+N-	1.25	270	60	0.4	0	5	off
15:51:27	Stop Counter:0							
15:51:33	L-N+	1.25	270	60	0.3	4	5	off
15:52:39	L-N+	1.25	270	60	0.4	3	5	off
15:53:46	L-N+	1.25	270	60	0.4	2	5	off
15:54:52	L-N+	1.25	270	60	0.4	1	5	off
15:55:59	L-N+	1.25	270	60	0.4	0	5	off
15:57:03	Stop Counter:0							

Result: Passed 1.25KV Surge test (Line to Neutral).

#### F) SURGE Test Profile

TYPE OF TEST: SURGE TEST @ 2KV ONLY (Line to Neutral)

Date: 10/19/2015

16:19:16 Surge Generator activated!

Time	Output	Us	Ph.	Rep	EUT	Cnt	max	Cnt	CFG	Output
16:20:18	L+N-	2.00	0	60	0.3	4	5	off		
16:21:17	L+N-	2.00	0	60	0.3	3	5	off		
16:22:18	L+N-	2.00	0	60	0.3	2	5	off		
16:23:18	L+N-	2.00	0	60	0.3	1	5	off		
16:24:18	L+N-	2.00	0	60	0.3	0	5	off		
16:25:19	Stop Counter:0									
16:25:22	L-N+	2.00	0	60	0.3	4	5	off		
16:26:12	L-N+	2.00	0	60	0.3	3	5	off		
16:27:02	L-N+	2.00	0	60	0.3	2	5	off		
16:27:52	L-N+	2.00	0	60	0.3	1	5	off		
16:28:42	L-N+	2.00	0	60	0.3	0	5	off		
16:29:32	Stop Counter:0									
16:29:36	L+N-	2.00	90	60	0.4	4	5	off		
16:30:38	L+N-	2.00	90	60	0.4	3	5	off		
16:31:40	L+N-	2.00	90	60	0.4	2	5	off		
16:32:42	L+N-	2.00	90	60	0.4	1	5	off		
16:33:45	L+N-	2.00	90	60	0.4	0	5	off		
16:34:46	Stop Counter:0									
16:34:50	L-N+	2.00	90	60	0.3	4	5	off		
16:35:53	L-N+	2.00	90	60	0.3	3	5	off		

Tested by: EV



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16:36:55	L-N+	2.00	90	60	0.3	2	5	off
16:37:57	L-N+	2.00	90	60	0.3	1	5	off
16:38:59	L-N+	2.00	90	60	0.3	0	5	off
16:40:00	Stop Counter:0							
16:40:06	L+N-	2.00	180	60	0.4	4	5	off
16:41:10	L+N-	2.00	180	60	0.4	3	5	off
16:42:14	L+N-	2.00	180	60	0.4	2	5	off
16:43:18	L+N-	2.00	180	60	0.4	1	5	off
16:44:23	L+N-	2.00	180	60	0.4	0	5	off
16:45:25	Stop Counter:0							
16:45:30	L-N+	2.00	180	60	0.4	4	5	off
16:46:35	L-N+	2.00	180	60	0.4	3	5	off
16:47:38	L-N+	2.00	180	60	0.4	2	5	off
16:48:43	L-N+	2.00	180	60	0.4	1	5	off
16:49:47	L-N+	2.00	180	60	0.4	0	5	off
16:50:49	Stop Counter:0							
16:50:56	L+N-	2.00	270	60	0.3	4	5	off
16:52:02	L+N-	2.00	270	60	0.4	3	5	off
16:53:09	L+N-	2.00	270	60	0.4	2	5	off
16:54:15	L+N-	2.00	270	60	0.4	1	5	off
16:55:22	L+N-	2.00	270	60	0.4	0	5	off
16:56:26	Stop Counter:0							
16:56:32	L-N+	2.00	270	60	0.3	4	5	off
16:57:39	L-N+	2.00	270	60	0.3	3	5	off
16:58:45	L-N+	2.00	270	60	0.3	2	5	off
16:59:51	L-N+	2.00	270	60	0.4	1	5	off
17:00:58	L-N+	2.00	270	60	0.4	0	5	off
17:02:01	Stop Counter:0							

Result: Passed 2KV Surge test (Line to Neutral).

G) SURGE Test Profile

TYPE OF TEST: SURGE TEST @ 2KV (Line-PE/PE-Neutral)

Date: 10/19/2015

16:11:16 Surge Generator activated!

Time	Output	Us	Ph. Rep	EUT	Cnt max	Cnt	CFG	Output
16:12:13	L+PE-	2.00	0	60	0.3	4	5	off
16:13:13	L+PE-	2.00	0	60	0.3	3	5	off
16:14:14	L+PE-	2.00	0	60	0.3	2	5	off
16:15:14	L+PE-	2.00	0	60	0.3	1	5	off
16:16:13	L+PE-	2.00	0	60	0.3	0	5	off
16:17:14	Stop Counter:0							
16:17:18	L-PE+	2.00	0	60	0.3	4	5	off
16:18:18	L-PE+	2.00	0	60	0.3	3	5	off
16:19:18	L-PE+	2.00	0	60	0.3	2	5	off
16:20:18	L-PE+	2.00	0	60	0.3	1	5	off
16:21:18	L-PE+	2.00	0	60	0.3	0	5	off
16:22:19	Stop Counter:0							
16:22:23	L+PE-	2.00	90	60	0.3	4	5	off
16:23:26	L+PE-	2.00	90	60	0.3	3	5	off
16:24:28	L+PE-	2.00	90	60	0.3	2	5	off
16:25:30	L+PE-	2.00	90	60	0.3	1	5	off
16:26:32	L+PE-	2.00	90	60	0.3	0	5	off
16:27:34	Stop Counter:0							

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16:27:38	L-PE+	2.00	90	60	0.3	4	5	off
16:28:40	L-PE+	2.00	90	60	0.3	3	5	off
16:29:43	L-PE+	2.00	90	60	0.3	2	5	off
16:30:45	L-PE+	2.00	90	60	0.3	1	5	off
16:31:47	L-PE+	2.00	90	60	0.3	0	5	off
16:32:49	Stop Counter:0							
16:32:54	L+PE-	2.00	180	60	0.3	4	5	off
16:33:59	L+PE-	2.00	180	60	0.3	3	5	off
16:35:04	L+PE-	2.00	180	60	0.3	2	5	off
16:36:08	L+PE-	2.00	180	60	0.3	1	5	off
16:37:12	L+PE-	2.00	180	60	0.3	0	5	off
16:38:14	Stop Counter:0							
16:38:18	L-PE+	2.00	180	60	0.3	4	5	off
16:39:08	L-PE+	2.00	180	60	0.3	3	5	off
16:39:58	L-PE+	2.00	180	60	0.3	2	5	off
16:40:48	L-PE+	2.00	180	60	0.3	1	5	off
16:41:37	L-PE+	2.00	180	60	0.3	0	5	off
16:42:29	Stop Counter:0							
16:42:35	L+PE-	2.00	270	60	0.3	4	5	off
16:43:41	L+PE-	2.00	270	60	0.3	3	5	off
16:44:47	L+PE-	2.00	270	60	0.3	2	5	off
16:45:54	L+PE-	2.00	270	60	0.3	1	5	off
16:47:01	L+PE-	2.00	270	60	0.3	0	5	off
16:48:04	Stop Counter:0							
16:48:10	L-PE+	2.00	270	60	0.3	4	5	off
16:49:17	L-PE+	2.00	270	60	0.3	3	5	off
16:50:23	L-PE+	2.00	270	60	0.3	2	5	off
16:51:29	L-PE+	2.00	270	60	0.3	1	5	off
16:52:36	L-PE+	2.00	270	60	0.3	0	5	off
16:53:40	Stop Counter:0							
16:53:42	PE-N+	2.00	0	60	0.3	4	5	off
16:54:43	PE-N+	2.00	0	60	0.3	3	5	off
16:55:42	PE-N+	2.00	0	60	0.3	2	5	off
16:56:43	PE-N+	2.00	0	60	0.3	1	5	off
16:57:42	PE-N+	2.00	0	60	0.3	0	5	off
16:58:43	Stop Counter:0							
16:58:46	PE+N-	2.00	0	60	0.3	4	5	off
16:59:46	PE+N-	2.00	0	60	0.3	3	5	off
17:00:46	PE+N-	2.00	0	60	0.3	2	5	off
17:01:46	PE+N-	2.00	0	60	0.3	1	5	off
17:02:46	PE+N-	2.00	0	60	0.3	0	5	off
17:03:47	Stop Counter:0							
17:03:50	PE-N+	2.00	90	60	0.3	4	5	off
17:04:52	PE-N+	2.00	90	60	0.3	3	5	off
17:05:54	PE-N+	2.00	90	60	0.3	2	5	off
17:06:57	PE-N+	2.00	90	60	0.3	1	5	off
17:08:00	PE-N+	2.00	90	60	0.3	0	5	off
17:09:00	Stop Counter:0							
17:09:04	PE+N-	2.00	90	60	0.3	4	5	off
17:10:06	PE+N-	2.00	90	60	0.3	3	5	off
17:11:08	PE+N-	2.00	90	60	0.3	2	5	off
17:12:11	PE+N-	2.00	90	60	0.3	1	5	off
17:13:13	PE+N-	2.00	90	60	0.3	0	5	off
17:14:14	Stop Counter:0							
17:14:19	PE-N+	2.00	180	60	0.3	4	5	off
17:15:23	PE-N+	2.00	180	60	0.3	3	5	off

Tested by: EV



GlobTek, Inc.

```

17:16:28 PE-N+ 2.00 180 60 0.3 2 5 off
17:17:32 PE-N+ 2.00 180 60 0.3 1 5 off
17:18:36 PE-N+ 2.00 180 60 0.3 0 5 off
17:19:39 Stop Counter:0
17:19:44 PE+N- 2.00 180 60 0.3 4 5 off
17:20:48 PE+N- 2.00 180 60 0.3 3 5 off
17:21:53 PE+N- 2.00 180 60 0.3 2 5 off
17:22:57 PE+N- 2.00 180 60 0.3 1 5 off
17:24:02 PE+N- 2.00 180 60 0.3 0 5 off
17:25:04 Stop Counter:0
17:25:10 PE-N+ 2.00 270 60 0.3 4 5 off
17:26:16 PE-N+ 2.00 270 60 0.3 3 5 off
17:27:23 PE-N+ 2.00 270 60 0.3 2 5 off
17:28:29 PE-N+ 2.00 270 60 0.3 1 5 off
17:29:36 PE-N+ 2.00 270 60 0.3 0 5 off
17:30:40 Stop Counter:0
17:30:46 PE+N- 2.00 270 60 0.3 4 5 off
17:31:53 PE+N- 2.00 270 60 0.3 3 5 off
17:32:59 PE+N- 2.00 270 60 0.3 2 5 off
17:34:05 PE+N- 2.00 270 60 0.3 1 5 off
17:35:12 PE+N- 2.00 270 60 0.3 0 5 off
17:36:16 Stop Counter:0

```

Result: Passed 2KV Surge test (Line-PE/PE-Neutral)

#### H) SURGE Test Profile

TYPE OF TEST: SURGE TEST @ 2.5KV (Line-PE/PE-Neutral)

Date: 10/20/2015

14:33:16 Surge Generator activated!

```

Time      Output  Us  Ph. Rep  EUT  Cnt max Cnt CFG Output
14:33:55 L+PE-   2.50  0  60  0.3  4  5  off
14:34:54 L+PE-   2.50  0  60  0.3  3  5  off
14:35:55 L+PE-   2.50  0  60  0.3  2  5  off
14:36:54 L+PE-   2.50  0  60  0.3  1  5  off
14:37:54 L+PE-   2.50  0  60  0.3  0  5  off
14:38:55 Stop Counter:0
14:38:58 L-PE+   2.50  0  60  0.3  4  5  off
14:39:58 L-PE+   2.50  0  60  0.3  3  5  off
14:40:58 L-PE+   2.50  0  60  0.3  2  5  off
14:41:58 L-PE+   2.50  0  60  0.3  1  5  off
14:42:58 L-PE+   2.50  0  60  0.3  0  5  off
14:43:58 Stop Counter:0
14:44:02 L+PE-   2.50  90  60  0.3  4  5  off
14:45:04 L+PE-   2.50  90  60  0.3  3  5  off
14:46:06 L+PE-   2.50  90  60  0.3  2  5  off
14:47:08 L+PE-   2.50  90  60  0.3  1  5  off
14:48:10 L+PE-   2.50  90  60  0.3  0  5  off
14:49:13 Stop Counter:0
14:49:15 L-PE+   2.50  90  60  0.3  4  5  off
14:50:05 L-PE+   2.50  90  60  0.3  3  5  off
14:50:55 L-PE+   2.50  90  60  0.3  2  5  off
14:51:46 L-PE+   2.50  90  60  0.3  1  5  off
14:52:35 L-PE+   2.50  90  60  0.3  0  5  off
14:53:26 Stop Counter:0
14:53:31 L+PE-   2.50  180  60  0.3  4  5  off

```

Tested by: EV



GlobeTek, Inc.

14:54:36	L+PE-	2.50	180	60	0.3	3	5	off
14:55:39	L+PE-	2.50	180	60	0.3	2	5	off
14:56:44	L+PE-	2.50	180	60	0.3	1	5	off
14:57:48	L+PE-	2.50	180	60	0.3	0	5	off
14:58:52	Stop Counter:0							
15:01:06	L-PE+	2.50	180	60	0.3	4	5	off
15:02:11	L-PE+	2.50	180	60	0.3	3	5	off
15:03:15	L-PE+	2.50	180	60	0.3	2	5	off
15:04:20	L-PE+	2.50	180	60	0.3	1	5	off
15:05:24	L-PE+	2.50	180	60	0.3	0	5	off
15:06:27	Stop Counter:0							
15:06:43	L+PE-	2.50	270	60	0.3	4	5	off
15:07:50	L+PE-	2.50	270	60	0.3	3	5	off
15:08:57	L+PE-	2.50	270	60	0.3	2	5	off
15:10:03	L+PE-	2.50	270	60	0.3	1	5	off
15:11:10	L+PE-	2.50	270	60	0.3	0	5	off
15:12:14	Stop Counter:0							
15:12:37	L-PE+	2.50	270	60	0.3	4	5	off
15:13:43	L-PE+	2.50	270	60	0.3	3	5	off
15:14:50	L-PE+	2.50	270	60	0.3	2	5	off
15:15:56	L-PE+	2.50	270	60	0.3	1	5	off
15:17:03	L-PE+	2.50	270	60	0.3	0	5	off
15:18:05	Stop Counter:0							
15:18:24	PE-N+	2.50	0	60	0.3	4	5	off
15:19:24	PE-N+	2.50	0	60	0.3	3	5	off
15:20:24	PE-N+	2.50	0	60	0.3	2	5	off
15:21:24	PE-N+	2.50	0	60	0.3	1	5	off
15:22:24	PE-N+	2.50	0	60	0.3	0	5	off
15:23:25	Stop Counter:0							
15:24:35	PE+N-	2.50	0	60	0.3	4	5	off
15:25:36	PE+N-	2.50	0	60	0.3	3	5	off
15:26:35	PE+N-	2.50	0	60	0.3	2	5	off
15:27:35	PE+N-	2.50	0	60	0.3	1	5	off
15:28:36	PE+N-	2.50	0	60	0.3	0	5	off
15:29:36	Stop Counter:0							
15:29:40	PE-N+	2.50	90	60	0.3	4	5	off
15:30:43	PE-N+	2.50	90	60	0.3	3	5	off
15:31:45	PE-N+	2.50	90	60	0.3	2	5	off
15:32:48	PE-N+	2.50	90	60	0.3	1	5	off
15:33:50	PE-N+	2.50	90	60	0.3	0	5	off
15:34:50	Stop Counter:0							
15:34:56	PE+N-	2.50	90	60	0.3	4	5	off
15:35:58	PE+N-	2.50	90	60	0.3	3	5	off
15:37:01	PE+N-	2.50	90	60	0.3	2	5	off
15:38:03	PE+N-	2.50	90	60	0.3	1	5	off
15:39:05	PE+N-	2.50	90	60	0.3	0	5	off
15:40:07	Stop Counter:0							
15:41:11	PE-N+	2.50	180	60	0.3	4	5	off
15:42:01	PE-N+	2.50	180	60	0.3	3	5	off
15:42:51	PE-N+	2.50	180	60	0.3	2	5	off
15:43:41	PE-N+	2.50	180	60	0.3	1	5	off
15:44:32	PE-N+	2.50	180	60	0.3	0	5	off
15:45:23	Stop Counter:0							
15:45:27	PE+N-	2.50	180	60	0.3	4	5	off
15:46:18	PE+N-	2.50	180	60	0.3	3	5	off
15:47:08	PE+N-	2.50	180	60	0.3	2	5	off

Tested by: EV



GlobTek, Inc.

```

15:47:58 PE+N- 2.50 180 60 0.3 1 5 off
15:48:48 PE+N- 2.50 180 60 0.3 0 5 off
15:49:39 Stop Counter:0
15:49:50 PE-N+ 2.50 270 60 0.3 4 5 off
15:50:56 PE-N+ 2.50 270 60 0.3 3 5 off
15:52:03 PE-N+ 2.50 270 60 0.3 2 5 off
15:53:10 PE-N+ 2.50 270 60 0.3 1 5 off
15:54:16 PE-N+ 2.50 270 60 0.3 0 5 off
15:55:20 Stop Counter:0
15:55:27 PE+N- 2.50 270 60 0.3 4 5 off
15:56:33 PE+N- 2.50 270 60 0.3 3 5 off
15:57:40 PE+N- 2.50 270 60 0.3 2 5 off
15:58:46 PE+N- 2.50 270 60 0.3 1 5 off
15:59:53 PE+N- 2.50 270 60 0.3 0 5 off
16:00:56 Stop Counter:0

```

Result: Passed 2.5KV Surge test (Line-PE/PE-Neutral)

### I) SURGE Test Profile

TYPE OF TEST: SURGE TEST @ 4KV (Line-PE/PE-Neutral)

Date: 10/23/2015

13:10:16 Surge Generator activated!

Time	Output	Us	Ph.	Rep	EUT	Cnt	max	Cnt	CFG	Output
13:10:57	L+PE-	4.00	0	60	0.3	4	5		off	
13:11:57	L+PE-	4.00	0	60	0.3	3	5		off	
13:12:57	L+PE-	4.00	0	60	0.3	2	5		off	
13:13:58	L+PE-	4.00	0	60	0.3	1	5		off	
13:14:58	L+PE-	4.00	0	60	0.3	0	5		off	
13:15:58	Stop Counter:0									
13:16:02	L-PE+	4.00	0	60	0.3	4	5		off	
13:17:02	L-PE+	4.00	0	60	0.3	3	5		off	
13:18:02	L-PE+	4.00	0	60	0.3	2	5		off	
13:19:02	L-PE+	4.00	0	60	0.3	1	5		off	
13:20:02	L-PE+	4.00	0	60	0.3	0	5		off	
13:21:03	Stop Counter:0									
13:21:06	L+PE-	4.00	90	60	0.3	4	5		off	
13:21:57	L+PE-	4.00	90	60	0.3	3	5		off	
13:22:46	L+PE-	4.00	90	60	0.3	2	5		off	
13:23:37	L+PE-	4.00	90	60	0.3	1	5		off	
13:24:27	L+PE-	4.00	90	60	0.3	0	5		off	
13:25:18	Stop Counter:0									
13:25:22	L-PE+	4.00	90	60	0.3	4	5		off	
13:26:24	L-PE+	4.00	90	60	0.3	3	5		off	
13:27:26	L-PE+	4.00	90	60	0.3	2	5		off	
13:28:28	L-PE+	4.00	90	60	0.3	1	5		off	
13:29:30	L-PE+	4.00	90	60	0.3	0	5		off	
13:30:33	Stop Counter:0									
13:30:38	L+PE-	4.00	180	60	0.3	4	5		off	
13:31:43	L+PE-	4.00	180	60	0.3	3	5		off	
13:32:46	L+PE-	4.00	180	60	0.3	2	5		off	
13:33:51	L+PE-	4.00	180	60	0.3	1	5		off	
13:34:56	L+PE-	4.00	180	60	0.3	0	5		off	
13:35:58	Stop Counter:0									
13:36:04	L-PE+	4.00	180	60	0.3	4	5		off	
13:37:09	L-PE+	4.00	180	60	0.3	3	5		off	
13:38:12	L-PE+	4.00	180	60	0.3	2	5		off	

Tested by: EV



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13:39:17	L-PE+	4.00	180	60	0.3	1	5	off
13:40:21	L-PE+	4.00	180	60	0.3	0	5	off
13:41:25	Stop Counter:0							
13:41:30	L+PE-	4.00	270	60	0.3	4	5	off
13:42:38	L+PE-	4.00	270	60	0.3	3	5	off
13:43:44	L+PE-	4.00	270	60	0.3	2	5	off
13:44:50	L+PE-	4.00	270	60	0.3	1	5	off
13:45:57	L+PE-	4.00	270	60	0.3	0	5	off
13:47:01	Stop Counter:0							
13:47:07	L-PE+	4.00	270	60	0.3	4	5	off
13:48:15	L-PE+	4.00	270	60	0.3	3	5	off
13:49:21	L-PE+	4.00	270	60	0.3	2	5	off
13:50:27	L-PE+	4.00	270	60	0.3	1	5	off
13:51:33	L-PE+	4.00	270	60	0.3	0	5	off
13:52:38	Stop Counter:0							
13:52:41	PE-N+	4.00	0	60	0.3	4	5	off
13:53:31	PE-N+	4.00	0	60	0.3	3	5	off
13:54:21	PE-N+	4.00	0	60	0.3	2	5	off
13:55:11	PE-N+	4.00	0	60	0.3	1	5	off
13:56:01	PE-N+	4.00	0	60	0.3	0	5	off
13:56:51	Stop Counter:0							
13:56:55	PE+N-	4.00	0	60	0.3	4	5	off
13:57:55	PE+N-	4.00	0	60	0.3	3	5	off
13:58:55	PE+N-	4.00	0	60	0.3	2	5	off
13:59:55	PE+N-	4.00	0	60	0.3	1	5	off
14:00:55	PE+N-	4.00	0	60	0.3	0	5	off
14:01:56	Stop Counter:0							
14:02:00	PE-N+	4.00	90	60	0.3	4	5	off
14:03:02	PE-N+	4.00	90	60	0.3	3	5	off
14:04:04	PE-N+	4.00	90	60	0.3	2	5	off
14:05:06	PE-N+	4.00	90	60	0.3	1	5	off
14:06:08	PE-N+	4.00	90	60	0.3	0	5	off
14:07:11	Stop Counter:0							
14:07:15	PE+N-	4.00	90	60	0.3	4	5	off
14:08:18	PE+N-	4.00	90	60	0.3	3	5	off
14:09:20	PE+N-	4.00	90	60	0.3	2	5	off
14:10:23	PE+N-	4.00	90	60	0.3	1	5	off
14:11:25	PE+N-	4.00	90	60	0.3	0	5	off
14:12:27	Stop Counter:0							
14:12:32	PE-N+	4.00	180	60	0.3	4	5	off
14:13:37	PE-N+	4.00	180	60	0.3	3	5	off
14:14:41	PE-N+	4.00	180	60	0.3	2	5	off
14:15:45	PE-N+	4.00	180	60	0.3	1	5	off
14:16:50	PE-N+	4.00	180	60	0.3	0	5	off
14:17:53	Stop Counter:0							
14:17:58	PE+N-	4.00	180	60	0.4	4	5	off
14:19:02	PE+N-	4.00	180	60	0.4	3	5	off
14:20:07	PE+N-	4.00	180	60	0.4	2	5	off
14:21:11	PE+N-	4.00	180	60	0.4	1	5	off
14:22:15	PE+N-	4.00	180	60	0.3	0	5	off
14:23:19	Stop Counter:0							
14:23:25	PE-N+	4.00	270	60	0.3	4	5	off
14:24:32	PE-N+	4.00	270	60	0.3	3	5	off
14:25:38	PE-N+	4.00	270	60	0.3	2	5	off
14:26:44	PE-N+	4.00	270	60	0.3	1	5	off
14:27:51	PE-N+	4.00	270	60	0.3	0	5	off

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14:28:55 Stop Counter:0

14:29:02	PE+N-	4.00	270	60	0.3	4	5	off
14:30:08	PE+N-	4.00	270	60	0.3	3	5	off
14:31:14	PE+N-	4.00	270	60	0.3	2	5	off
14:32:21	PE+N-	4.00	270	60	0.4	1	5	off
14:32:22	PE+N-	4.00	270	60	0.3	1	5	off
14:33:27	PE+N-	4.00	270	60	0.3	0	5	off

14:34:31 Stop Counter:0

Result: Passed 4KV Surge test (Line-PE/PE-Neutral).