

be quiet Service Center Glinde
Testing Report
Tested by Chroma ATE 8000 System

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Test Program Name : Presse_LC POWER_LC7300 300W
Serial No : Testing Data System Time : 2012/04/10
12:45:30 PM
Model Name : LC Power LC7300 #00W Silver Elapsed Time : 00:11:24
LOT Number : Environment :
Order Number : Inspector : root
Customer : hardware.net Test Result : FAIL

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(Pre Test seq.1) : Input Source PreSetup

Vin (V)= 230.00 Fin (Hz)= 50.00 Manput Voltage (V)= 250.00
Current Limit(A)= 20.00

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(Pre Test seq.2) : Load PreSetup

Load Name	Load Mode	Voltage Sense	ILoad Max (A)	VLoad Max (V)	Von (V)	Rise Rate (A/us)	Fall Rate (A/us)
+5V	0	1	60.00	16.00	1.50	0.0500	0.0500
+12V	0	1	60.00	16.00	5.00	0.0500	0.0500
-12V	0	1	6.00	16.00	-5.00	0.0100	0.0100
+3.3V	0	1	60.00	16.00	1.50	0.5000	0.5000
+5Vsb	0	1	6.00	16.00	1.50	0.1000	0.0100
+12V2 (A)	0	1	60.00	16.00	5.00	0.5000	0.0500

Von Action Type (0:None Latch 1:Latch) = 1

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STEP.2(UUT Test seq.2) : Turn On & Sequence Test(230V 100%) ---- (3'032) -- PASS

Vin (V)= 230.00 Fin (Hz)= 50.00 On Phase Delay(ms)= 0.00
UUT Off Time (s)= 0.50

Load Name	Loading (A/Ohm/V)	TTL Index	Trigger Level	Start Trigger	End Trigger	VcmpA (V)	VcmpB (V)
+5V	7.620	1	5	5	2	4.750	5.500
+12V	7.530	2	5	5	2	11.400	13.200
-12V	0.210	3	5	5	2	-10.800	-13.800
+3.3V	10.670	4	5	5	2	3.130	3.630
+5Vsb	2.130	5	1	1	5	4.750	5.500
+12V2 (A)	10.260	6	5	5	2	11.400	13.200

Load Name	Ton Max	Ton Min	Ton (ms)
+5V	500.00	150.00	302.90
+12V	500.00	150.00	303.53
-12V	500.00	150.00	304.95
+3.3V	500.00	150.00	307.11
+5Vsb	*****	*****	198.41
+12V2 (A)	500.00	150.00	301.60

Ref Ton From which Load = 0
Reading

Tds	(ms)	198.41
Tdl	(ms)	307.11
Tdls	(ms)	108.70

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STEP.3(UUT Test seq.3) : L Hold On Adjust Test Timeout(230V 100%) ---- (1:0 PASS

Vin (V)= 230.00 Fin (Hz)= 50.00 Delay Time (ms)= 1500.00
Max time(s) = 60

Message = 100% of Load

Load Name	Loading (A/Ohm/V)	Vout Adjust (V)	Vout Max	Vout Min	Vout (V)
+5V	7.620	5.000	5.250	4.750	4.925
+12V	7.530	12.000	12.600	11.400	11.939
-12V	0.210	-12.000	-13.200	-10.800	-12.007
+3.3V	10.670	3.300	3.465	3.135	3.341
+5Vsb	2.130	5.000	5.250	4.750	4.875
+12V2 (A)	10.260	12.000	12.600	11.400	11.651

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STEP.4(UUT Test seq.4) : Input Output Test(230V 100%) ---- (2'031) ----- FAIL

Vin (V)= 230.00 Fin (Hz)= 50.00 Delay Time (ms)= 1500.00

	Max	Min	Reading
Vinrms (V)	*****	*****	231.33
Iinrms (A)	*****	*****	1.64
Iinpk+ (A)	*****	*****	3.22
Iinpk- (A)	*****	*****	3.20
Pin (W)	*****	*****	349.68
Pout (W)	*****	*****	295.28
PF (0~1)	*****	0.9000	0.9212
Eff (%)	*****	85.00	??84.44

Load Name	Loading (A/Ohm/V)	Vout Max	Vout Min	Vout (V)	Iout Max	Iout Min	Iout (A)
+5V	7.620	5.250	4.750	4.925	*****	*****	7.613
+12V	7.530	12.600	11.400	11.938	*****	*****	7.523
-12V	0.210	-13.200	-10.800	-12.007	*****	*****	0.210
+3.3V	10.670	3.465	3.135	3.341	*****	*****	10.664
+5Vsb	2.130	5.250	4.750	4.875	*****	*****	2.130
+12V2 (A)	10.260	12.600	11.400	11.642	*****	*****	10.260

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STEP.5(UUT Test seq.5) : Noise Test(230V 100%) ---- (1'516) ----- PASS

Vin (V)= 230.00 Fin (Hz)= 50.00 Delay Time (ms)= 500.00

Load Name	Noise Range (V)	Noise B.W (MHz)	Loading (A/Ohm/V)	Vpp Noise Max	Vpp Noise (mV)
+5V	2.000	20.0000	7.620	0.050	0.013
+12V	2.000	20.0000	7.530	0.120	0.028
-12V	2.000	20.0000	0.210	0.200	0.048
+3.3V	2.000	20.0000	10.670	0.050	0.010
+5Vsb	2.000	20.0000	2.130	0.050	0.015
+12V2 (A)	2.000	20.0000	10.260	0.120	0.030

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STEP.6(UUT Test seq.6) : Overshoot Voltage Test_2(230V 100%) ---- (6'688) - PASS

Vin (V)= 230.00 Fin (Hz)= 50.00 On Phase Delay (ms)= 0.00
 UUT Off Time (s)= 3.00

Load Name	Loading (A/Ohm/V)	Vout Max	Vout Min	Vout (V)	Vpk Max	Vpk (V)
+5V	6.090	5.250	4.750	4.953	5.500	<5.500
+12V	6.020	12.600	11.400	11.983	13.500	<13.500
-12V	0.170	-13.200	-10.800	-11.968	-13.800	<-13.800
+3.3V	8.530	3.465	3.135	3.359	3.630	<3.630
+5Vsb	1.710	5.250	4.750	4.903	5.500	<5.500
+12V2 (A)	8.210	12.600	11.400	11.753	13.500	<13.500

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STEP.7(UUT Test seq.7) : Hold Up & Sequence Test(230V 80%) ---- (6'359) --- PASS

Vin (V)= 230.00 Fin (Hz)= 50.00 Delay Time (ms)= 1500.00
 On Phase Delay(ms)= 4.17 UUT Off Time (s)= 3.00

TTL Index	Trigger Level
1	1.00
2	1.00
3	1.00
4	1.00

Load Name	Loading (A/Ohm/V)	Start Trigger	End Trigger	VcmpA (V)	VcmpB (V)
+5V	6.090	8	12	4.500	5.250
+12V	6.020	8	12	10.800	12.600
-12V	0.170	8	12	-10.800	-13.200
+3.3V	8.530	8	12	2.970	3.460
+5Vsb	1.710	8	12	4.500	5.250
+12V2 (A)	8.210	8	12	10.800	12.600

Load Name	Tholdup Min	Tholdup (ms)	Ref Tds (ms)	Tholdup from which Tdl (ms)	Load = 0 Tdls (ms)
+5V	13.00	50.40	50.03	478.61	428.59
+12V	13.00	51.08	50.03	478.61	428.59
-12V	13.00	52.94	50.03	478.61	428.59
+3.3V	13.00	59.82	50.03	478.61	428.59
+5Vsb	*****	478.61	50.03	478.61	428.59
+12V2 (A)	13.00	50.03	50.03	478.61	428.59

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STEP.8(UUT Test seq.8) : Static Test ---- (2'422) ----- PASS

Vin (V)= 0.00
 Fin (Hz)= 60.00
 Delay Time (ms)= 1500.00

Load Name	Loading (A/Ohm/V)
+5V	7.620
+12V	7.530

-12V	0.210
+3.3V	10.670
+5Vsb	2.130
+12V2 (A)	10.260

Load Name	Vout Max	Vout Min	Vout (V)	Iout Max	Iout Min	Iout (A)
-----	-----	-----	-----	-----	-----	-----
+5V	*****	*****	0.000	*****	*****	0.000
+12V	*****	*****	0.009	*****	*****	0.000
-12V	*****	*****	-0.021	*****	*****	0.000
+3.3V	*****	*****	0.000	*****	*****	0.000
+5Vsb	*****	*****	0.013	*****	*****	0.000
+12V2 (A)	*****	*****	0.008	*****	*****	0.000

	Max	Min	Reading
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Pout (W)	*****	*****	0.00

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STEP.9(UUT Test seq.9) : Turn On & Sequence Test(230V 50%) ---- (2'968) --- PASS

Vin (V)= 230.00 Fin (Hz)= 50.00 On Phase Delay(ms)= 0.00
 UUT Off Time (s)= 0.50

Load Name	Loading (A/Ohm/V)	TTL Index	Trigger Level	Start Trigger	End Trigger	VcmpA (V)	VcmpB (V)
-----	-----	-----	-----	-----	-----	-----	-----
+5V	3.810	1	5	5	2	4.750	5.500
+12V	3.760	2	5	5	2	11.400	13.200
-12V	0.110	3	5	5	2	-10.800	-13.800
+3.3V	5.330	4	5	5	2	3.130	3.630
+5Vsb	1.070	5	1	1	5	4.750	5.500
+12V2 (A)	5.130	6	5	5	2	11.400	13.200

Load Name	Ton Max	Ton Min	Ton (ms)
-----	-----	-----	-----
+5V	500.00	150.00	305.36
+12V	500.00	150.00	305.49
-12V	500.00	150.00	306.14
+3.3V	500.00	150.00	308.35
+5Vsb	*****	*****	142.94
+12V2 (A)	500.00	150.00	305.03

Ref Ton From which Load = 0
 Reading

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Tds (ms)	142.94
Tdl (ms)	308.35
Tdls (ms)	165.41

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STEP.10(UUT Test seq.10) : L Hold On Adjust Test Timeout(230V 50%) ---- (1: PASS

Vin (V)= 230.00 Fin (Hz)= 50.00 Delay Time (ms)= 1500.00
 Max time(s) = 60

Message = 50% of Load

Load Name	Loading (A/Ohm/V)	Vout Adjust (V)	Vout Max	Vout Min	Vout (V)
-----	-----	-----	-----	-----	-----

+5V	3.810	5.000	5.250	4.750	4.996
+12V	3.760	12.000	12.600	11.400	12.046
-12V	0.110	-12.000	-13.200	-10.800	-11.899
+3.3V	5.330	3.300	3.465	3.135	3.385
+5Vsb	1.070	5.000	5.250	4.750	4.945
+12V2 (A)	5.130	12.000	12.600	11.400	11.907

STEP.11(UUT Test seq.11) : Input Output Test(230V 50%) ---- (1'890) ----- FAIL

Vin (V)= 230.00 Fin (Hz)= 50.00 Delay Time (ms)= 1500.00

		Max	Min	Reading
Vinrms	(V)	*****	*****	231.35
Iinrms	(A)	*****	*****	0.82
Iinpk+	(A)	*****	*****	1.60
Iinpk-	(A)	*****	*****	1.56
Pin	(W)	*****	*****	173.04
Pout	(W)	*****	*****	149.76
PF	(0~1)	*****	0.9000	0.9095
Eff	(%)	*****	88.00	??86.55

Load Name	Loading (A/Ohm/V)	Vout Max	Vout Min	Vout (V)	Iout Max	Iout Min	Iout (A)
+5V	3.810	5.250	4.750	4.995	*****	*****	3.803
+12V	3.760	12.600	11.400	12.046	*****	*****	3.742
-12V	0.110	-13.200	-10.800	-11.899	*****	*****	0.109
+3.3V	5.330	3.465	3.135	3.385	*****	*****	5.321
+5Vsb	1.070	5.250	4.750	4.945	*****	*****	1.069
+12V2 (A)	5.130	12.600	11.400	11.907	*****	*****	5.131

STEP.12(UUT Test seq.12) : Noise Test(230V 50%) ---- (1'422) ----- PASS

Vin (V)= 230.00 Fin (Hz)= 50.00 Delay Time (ms)= 500.00

Load Name	Noise Range (V)	Noise B.W (MHz)	Loading (A/Ohm/V)	Vpp Noise Max	Vpp Noise (mV)
+5V	2.000	20.0000	3.810	0.050	0.009
+12V	2.000	20.0000	3.760	0.120	0.018
-12V	2.000	20.0000	0.110	0.200	0.025
+3.3V	2.000	20.0000	5.330	0.050	0.009
+5Vsb	2.000	20.0000	1.070	0.050	0.011
+12V2 (A)	2.000	20.0000	5.130	0.120	0.018

STEP.13(UUT Test seq.13) : Hold Up & Sequence Test(230V 65%) ---- (6'594) - PASS

Vin (V)= 230.00 Fin (Hz)= 50.00 Delay Time (ms)= 1500.00
On Phase Delay(ms)= 4.17 UUT Off Time (s)= 3.00

TTL Index	Trigger Level
1	1.00
2	1.00
3	1.00
4	1.00

Load Name	Loading (A/Ohm/V)	Start Trigger	End Trigger	VcmpA (V)	VcmpB (V)
+5V	4.950	8	12	4.500	5.250

+12V	4.890	8	12	10.800	12.600
-12V	0.140	8	12	-10.800	-13.200
+3.3V	6.930	8	12	2.970	3.460
+5Vsb	1.390	8	12	4.500	5.250
+12V2 (A)	6.670	8	12	10.800	12.600

Load Name	Tholdup Min	Tholdup (ms)	Ref Tholdup Tds (ms)	from which Tdl (ms)	Load = 0 Tdls (ms)
+5V	13.00	58.18	57.90	595.34	537.44
+12V	13.00	58.90	57.90	595.34	537.44
-12V	13.00	60.70	57.90	595.34	537.44
+3.3V	13.00	68.82	57.90	595.34	537.44
+5Vsb	*****	595.34	57.90	595.34	537.44
+12V2 (A)	13.00	57.90	57.90	595.34	537.44

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STEP.14(UUT Test seq.14) : Static Test ---- (2'422) ----- PASS

Vin (V)= 0.00

Fin (Hz)= 60.00

Delay Time (ms)= 1500.00

Load Name	Loading (A/Ohm/V)
+5V	7.620
+12V	7.530
-12V	0.210
+3.3V	10.670
+5Vsb	2.130
+12V2 (A)	10.260

Load Name	Vout Max	Vout Min	Vout (V)	Iout Max	Iout Min	Iout (A)
+5V	*****	*****	0.000	*****	*****	0.000
+12V	*****	*****	0.009	*****	*****	0.000
-12V	*****	*****	-0.024	*****	*****	0.000
+3.3V	*****	*****	0.000	*****	*****	0.000
+5Vsb	*****	*****	0.016	*****	*****	0.000
+12V2 (A)	*****	*****	0.009	*****	*****	0.000

	Max	Min	Reading
Pout (W)	*****	*****	0.00

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STEP.15(UUT Test seq.15) : Turn On & Sequence Test(230V 20%) ---- (2'922) - PASS

Vin (V)= 230.00 Fin (Hz)= 50.00 On Phase Delay(ms)= 0.00

UUT Off Time (s)= 0.50

Load Name	Loading (A/Ohm/V)	TTL Index	Trigger Level	Start Trigger	End Trigger	VcmpA (V)	VcmpB (V)
+5V	1.520	1	5	5	2	4.750	5.500
+12V	1.510	2	5	5	2	11.400	13.200
-12V	0.040	3	5	5	2	-10.800	-13.800
+3.3V	2.130	4	5	5	2	3.130	3.630
+5Vsb	0.430	5	1	1	5	4.750	5.500
+12V2 (A)	2.050	6	5	5	2	11.400	13.200

Load Name	Ton Max	Ton Min	Ton (ms)
+5V	500.00	150.00	309.65
+12V	500.00	150.00	309.62
-12V	500.00	150.00	309.93
+3.3V	500.00	150.00	312.34
+5Vsb	*****	*****	131.00
+12V2 (A)	500.00	150.00	309.51

Ref Ton From which Load = 0
Reading

Tds	(ms)	131.00
Tdl	(ms)	312.34
Tdls	(ms)	181.34

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STEP.16(UUT Test seq.16) : L Hold On Adjust Test Timeout(230V 20%) ---- (1: PASS

Vin (V)= 230.00 Fin (Hz)= 50.00 Delay Time (ms)= 1500.00
Max time(s) = 60

Message = 50% of Load

Load Name	Loading (A/Ohm/V)	Vout Adjust (V)	Vout Max	Vout Min	Vout (V)
+5V	1.520	5.000	5.250	4.750	5.041
+12V	1.510	12.000	12.600	11.400	12.107
-12V	0.040	-12.000	-13.200	-10.800	-11.840
+3.3V	2.130	3.300	3.465	3.135	3.411
+5Vsb	0.430	5.000	5.250	4.750	4.987
+12V2 (A)	2.050	12.000	12.600	11.400	12.053

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STEP.17(UUT Test seq.17) : Input Output Test(230V 20%) ---- (1'890) ----- FAIL

Vin (V)= 230.00 Fin (Hz)= 50.00 Delay Time (ms)= 1500.00

	Max	Min	Reading
Vinrms (V)	*****	*****	231.34
Iinrms (A)	*****	*****	0.36
Iinpk+ (A)	*****	*****	0.68
Iinpk- (A)	*****	*****	0.69
Pin (W)	*****	*****	71.23
Pout (W)	*****	*****	60.06
PF (0~1)	*****	0.9000	??0.8490
Eff (%)	*****	85.00	??84.33

Load Name	Loading (A/Ohm/V)	Vout Max	Vout Min	Vout (V)	Iout Max	Iout Min	Iout (A)
+5V	1.520	5.250	4.750	5.041	*****	*****	1.506
+12V	1.510	12.600	11.400	12.107	*****	*****	1.490
-12V	0.040	-13.200	-10.800	-11.840	*****	*****	0.039
+3.3V	2.130	3.465	3.135	3.411	*****	*****	2.126
+5Vsb	0.430	5.250	4.750	4.987	*****	*****	0.428
+12V2 (A)	2.050	12.600	11.400	12.054	*****	*****	2.040

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STEP.18(UUT Test seq.18) : Noise Test(230V 20%) ---- (1'422) ----- PASS

Vin (V)= 230.00 Fin (Hz)= 50.00 Delay Time (ms)= 500.00

Load Name	Noise Range (V)	Noise B.W (MHz)	Loading (A/Ohm/V)	Vpp Noise Max	Vpp Noise (mV)
+5V	2.000	20.0000	1.520	0.050	0.007
+12V	2.000	20.0000	1.510	0.120	0.014
-12V	2.000	20.0000	0.040	0.200	0.019
+3.3V	2.000	20.0000	2.130	0.050	0.007
+5Vsb	2.000	20.0000	0.430	0.050	0.012
+12V2 (A)	2.000	20.0000	2.050	0.120	0.014

STEP.19(UUT Test seq.19) : Hold Up & Sequence Test(230V 20%) ---- (7'657) - PASS

Vin (V)= 230.00 Fin (Hz)= 50.00 Delay Time (ms)= 1500.00
On Phase Delay(ms)= 4.17 UUT Off Time (s)= 3.00

TTL Index	Trigger Level
1	1.00
2	1.00
3	1.00
4	1.00

Load Name	Loading (A/Ohm/V)	Start Trigger	End Trigger	VcmpA (V)	VcmpB (V)
+5V	1.520	8	12	4.500	5.250
+12V	1.510	8	12	10.800	12.600
-12V	0.040	8	12	-10.800	-13.200
+3.3V	2.130	8	12	2.970	3.460
+5Vsb	0.430	8	12	4.500	5.250
+12V2 (A)	2.050	8	12	10.800	12.600

Load Name	Tholdup Min	Tholdup (ms)	Ref Tholdup Tds (ms)	from which Tdl (ms)	Load = 0 Tdls (ms)
+5V	13.00	155.83	155.80	1854.13	1698.33
+12V	13.00	156.72	155.80	1854.13	1698.33
-12V	13.00	159.87	155.80	1854.13	1698.33
+3.3V	13.00	178.79	155.80	1854.13	1698.33
+5Vsb	*****	1854.13	155.80	1854.13	1698.33
+12V2 (A)	13.00	155.80	155.80	1854.13	1698.33

STEP.20(UUT Test seq.20) : Static Test ---- (2'421) ----- PASS

Vin (V)= 0.00
Fin (Hz)= 60.00
Delay Time (ms)= 1500.00

Load Name	Loading (A/Ohm/V)
+5V	7.620
+12V	7.530
-12V	0.210
+3.3V	10.670
+5Vsb	2.130
+12V2 (A)	10.260

Load Name	Vout Max	Vout Min	Vout (V)	Iout Max	Iout Min	Iout (A)
+5V	*****	*****	0.000	*****	*****	0.000
+12V	*****	*****	0.011	*****	*****	0.000
-12V	*****	*****	-0.021	*****	*****	0.000
+3.3V	*****	*****	0.000	*****	*****	0.000
+5Vsb	*****	*****	0.018	*****	*****	0.000
+12V2 (A)	*****	*****	0.010	*****	*****	0.000

	Max	Min	Reading
Pout (W)	*****	*****	0.00

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STEP.21(UUT Test seq.21) : Turn On & Sequence Test(115V 100%) ---- (3'140) PASS

Vin (V)= 115.00 Fin (Hz)= 60.00 On Phase Delay(ms)= 0.00
 UUT Off Time (s)= 0.50

Load Name	Loading (A/Ohm/V)	TTL Index	Trigger Level	Start Trigger	End Trigger	VcmpA (V)	VcmpB (V)
+5V	7.620	1	5	5	2	4.750	5.500
+12V	7.530	2	5	5	2	11.400	13.200
-12V	0.210	3	5	5	2	-10.800	-13.800
+3.3V	10.670	4	5	5	2	3.130	3.630
+5Vsb	2.130	5	1	1	5	4.750	5.500
+12V2 (A)	10.260	6	5	5	2	11.400	13.200

Load Name	Ton Max	Ton Min	Ton (ms)
+5V	500.00	150.00	303.35
+12V	500.00	150.00	303.78
-12V	500.00	150.00	304.95
+3.3V	500.00	150.00	306.81
+5Vsb	*****	*****	360.86
+12V2 (A)	500.00	150.00	302.26

Ref Ton From which Load = 0
 Reading

Tds (ms)	302.26
Tdl (ms)	360.86
Tdls (ms)	58.61

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STEP.22(UUT Test seq.22) : L Hold On Adjust Test Timeout(115V 100%) ---- (1 PASS

Vin (V)= 115.00 Fin (Hz)= 60.00 Delay Time (ms)= 1500.00
 Max time(s) = 60

Message = 100% of Load

Load Name	Loading (A/Ohm/V)	Vout Adjust (V)	Vout Max	Vout Min	Vout (V)
+5V	7.620	5.000	5.250	4.750	4.927
+12V	7.530	12.000	12.600	11.400	11.924
-12V	0.210	-12.000	-13.200	-10.800	-11.997
+3.3V	10.670	3.300	3.465	3.135	3.341

+5Vsb	2.130	5.000	5.250	4.750	4.873
+12V2 (A)	10.260	12.000	12.600	11.400	11.644

=====

STEP.23(UUT Test seq.23) : Input Output Test(115V 100%) ---- (1'938) ----- FAIL

Vin (V)= 115.00 Fin (Hz)= 60.00 Delay Time (ms)= 1500.00

		Max	Min	Reading
Vinrms (V)	*****	*****		115.56
Iinrms (A)	*****	*****		3.16
Iinpk+ (A)	*****	*****		5.23
Iinpk- (A)	*****	*****		5.19
Pin (W)	*****	*****		358.63
Pout (W)	*****	*****		295.15
PF (0~1)	*****	0.9000		0.9806
Eff (%)	*****	85.00		??82.30

Load Name	Loading (A/Ohm/V)	Vout Max	Vout Min	Vout (V)	Iout Max	Iout Min	Iout (A)
+5V	7.620	5.250	4.750	4.927	*****	*****	7.614
+12V	7.530	12.600	11.400	11.923	*****	*****	7.522
-12V	0.210	-13.200	-10.800	-11.997	*****	*****	0.210
+3.3V	10.670	3.465	3.135	3.341	*****	*****	10.663
+5Vsb	2.130	5.250	4.750	4.873	*****	*****	2.130
+12V2 (A)	10.260	12.600	11.400	11.641	*****	*****	10.260

=====

STEP.24(UUT Test seq.24) : Noise Test(115V 100%) ---- (1'453) ----- PASS

Vin (V)= 115.00 Fin (Hz)= 60.00 Delay Time (ms)= 500.00

Load Name	Noise Range (V)	Noise B.W (MHz)	Loading (A/Ohm/V)	Vpp Noise Max	Vpp Noise (mV)
+5V	2.000	20.0000	7.620	0.050	0.012
+12V	2.000	20.0000	7.530	0.120	0.027
-12V	2.000	20.0000	0.210	0.200	0.045
+3.3V	2.000	20.0000	10.670	0.050	0.011
+5Vsb	2.000	20.0000	2.130	0.050	0.015
+12V2 (A)	2.000	20.0000	10.260	0.120	0.029

=====

STEP.25(UUT Test seq.25) : Overshoot Voltage Test_2(115V 100%) ---- (6'641) PASS

Vin (V)= 115.00 Fin (Hz)= 60.00 On Phase Delay (ms)= 0.00
 UUT Off Time (s)= 3.00

Load Name	Loading (A/Ohm/V)	Vout Max	Vout Min	Vout (V)	Vpk Max	Vpk (V)
+5V	6.090	5.250	4.750	4.956	5.500	<5.500
+12V	6.020	12.600	11.400	11.969	13.500	<13.500
-12V	0.170	-13.200	-10.800	-11.958	-13.800	<-13.800
+3.3V	8.530	3.465	3.135	3.359	3.630	<3.630
+5Vsb	1.710	5.250	4.750	4.902	5.500	<5.500
+12V2 (A)	8.210	12.600	11.400	11.747	13.500	<13.500

=====

STEP.26(UUT Test seq.26) : Hold Up & Sequence Test(115V 100%) ---- (6'359) PASS

Vin (V)= 115.00 Fin (Hz)= 60.00 Delay Time (ms)= 1500.00
 On Phase Delay(ms)= 4.17 UUT Off Time (s)= 3.00

TTL Index	Trigger Level
1	1.00
2	1.00
3	1.00
4	1.00

Load Name	Loading (A/Ohm/V)	Start Trigger	End Trigger	VcmpA (V)	VcmpB (V)
+5V	6.090	8	12	4.500	5.250
+12V	6.020	8	12	10.800	12.600
-12V	0.170	8	12	-10.800	-13.200
+3.3V	8.530	8	12	2.970	3.460
+5Vsb	1.710	8	12	4.500	5.250
+12V2 (A)	8.210	8	12	10.800	12.600

Load Name	Tholdup Min	Tholdup (ms)	Ref Tholdup Tds (ms)	from which Tdl (ms)	Load = 0 Tdls (ms)
+5V	13.00	51.26	50.87	480.68	429.81
+12V	13.00	51.87	50.87	480.68	429.81
-12V	13.00	53.73	50.87	480.68	429.81
+3.3V	13.00	60.69	50.87	480.68	429.81
+5Vsb	*****	480.68	50.87	480.68	429.81
+12V2 (A)	13.00	50.87	50.87	480.68	429.81

=====

STEP.27(UUT Test seq.27) : Static Test ---- (2'406) ----- PASS

Vin (V)= 0.00

Fin (Hz)= 60.00

Delay Time (ms)= 1500.00

Load Name	Loading (A/Ohm/V)
+5V	7.620
+12V	7.530
-12V	0.210
+3.3V	10.670
+5Vsb	2.130
+12V2 (A)	10.260

Load Name	Vout Max	Vout Min	Vout (V)	Iout Max	Iout Min	Iout (A)
+5V	*****	*****	0.000	*****	*****	0.000
+12V	*****	*****	0.005	*****	*****	0.000
-12V	*****	*****	-0.022	*****	*****	0.000
+3.3V	*****	*****	0.000	*****	*****	0.000
+5Vsb	*****	*****	0.014	*****	*****	0.000
+12V2 (A)	*****	*****	0.005	*****	*****	0.000

	Max	Min	Reading
Pout (W)	*****	*****	0.00

=====

STEP.28(UUT Test seq.28) : Turn On & Sequence Test(115V 50%) ---- (3'219) - PASS

Vin (V)= 115.00 Fin (Hz)= 60.00 On Phase Delay(ms)= 0.00
 UUT Off Time (s)= 0.50

Load Name	Loading (A/Ohm/V)	TTL Index	Trigger Level	Start Trigger	End Trigger	VcmpA (V)	VcmpB (V)
+5V	3.810	1	5	5	2	4.750	5.500
+12V	3.760	2	5	5	2	11.400	13.200
-12V	0.110	3	5	5	2	-10.800	-13.800
+3.3V	5.330	4	5	5	2	3.130	3.630
+5Vsb	1.070	5	1	1	5	4.750	5.500
+12V2 (A)	5.130	6	5	5	2	11.400	13.200

Load Name	Ton Max	Ton Min	Ton (ms)
+5V	500.00	150.00	304.07
+12V	500.00	150.00	304.15
-12V	500.00	150.00	304.80
+3.3V	500.00	150.00	306.96
+5Vsb	*****	*****	363.75
+12V2 (A)	500.00	150.00	303.70

Ref Ton From which Load = 0
 Reading

Tds (ms)	303.70
Tdl (ms)	363.75
Tdls (ms)	60.05

=====

STEP.29(UUT Test seq.29) : L Hold On Adjust Test Timeout(115V 50%) ---- (1: PASS)

Vin (V)= 115.00 Fin (Hz)= 60.00 Delay Time (ms)= 1500.00
 Max time(s) = 60

Message = 50% of Load

Load Name	Loading (A/Ohm/V)	Vout Adjust (V)	Vout Max	Vout Min	Vout (V)
+5V	3.810	5.000	5.250	4.750	4.996
+12V	3.760	12.000	12.600	11.400	12.035
-12V	0.110	-12.000	-13.200	-10.800	-11.890
+3.3V	5.330	3.300	3.465	3.135	3.385
+5Vsb	1.070	5.000	5.250	4.750	4.944
+12V2 (A)	5.130	12.000	12.600	11.400	11.901

=====

STEP.30(UUT Test seq.30) : Input Output Test(115V 50%) ---- (1'906) ----- FAIL

Vin (V)= 115.00 Fin (Hz)= 60.00 Delay Time (ms)= 1500.00

	Max	Min	Reading
Vinrms (V)	*****	*****	115.56
Iinrms (A)	*****	*****	1.56
Iinpk+ (A)	*****	*****	2.55
Iinpk- (A)	*****	*****	2.55
Pin (W)	*****	*****	176.40
Pout (W)	*****	*****	149.68
PF (0~1)	*****	0.9000	0.9798
Eff (%)	*****	90.00	??84.85

Load Name	Loading (A/Ohm/V)	Vout Max	Vout Min	Vout (V)	Iout Max	Iout Min	Iout (A)
+5V	3.810	5.250	4.750	4.996	*****	*****	3.803
+12V	3.760	12.600	11.400	12.035	*****	*****	3.741
-12V	0.110	-13.200	-10.800	-11.890	*****	*****	0.109
+3.3V	5.330	3.465	3.135	3.385	*****	*****	5.321
+5Vsb	1.070	5.250	4.750	4.944	*****	*****	1.069
+12V2 (A)	5.130	12.600	11.400	11.901	*****	*****	5.131

=====

STEP.31(UUT Test seq.31) : Noise Test(115V 50%) ---- (1'422) ----- PASS

Vin (V)= 115.00 Fin (Hz)= 60.00 Delay Time (ms)= 500.00

Load Name	Noise Range (V)	Noise B.W (MHz)	Loading (A/Ohm/V)	Vpp Noise Max	Vpp Noise (mV)
+5V	2.000	20.0000	3.810	0.050	0.008
+12V	2.000	20.0000	3.760	0.120	0.020
-12V	2.000	20.0000	0.110	0.200	0.026
+3.3V	2.000	20.0000	5.330	0.050	0.009
+5Vsb	2.000	20.0000	1.070	0.050	0.012
+12V2 (A)	2.000	20.0000	5.130	0.120	0.019

=====

STEP.32(UUT Test seq.32) : Hold Up & Sequence Test(115V 65%) ---- (6'578) - PASS

Vin (V)= 115.00 Fin (Hz)= 60.00 Delay Time (ms)= 1500.00
On Phase Delay(ms)= 4.17 UUT Off Time (s)= 3.00

TTL Index	Trigger Level
1	1.00
2	1.00
3	1.00
4	1.00

Load Name	Loading (A/Ohm/V)	Start Trigger	End Trigger	VcmpA (V)	VcmpB (V)
+5V	4.950	8	12	4.500	5.250
+12V	4.890	8	12	10.800	12.600
-12V	0.140	8	12	-10.800	-13.200
+3.3V	6.930	8	12	2.970	3.460
+5Vsb	1.390	8	12	4.500	5.250
+12V2 (A)	6.670	8	12	10.800	12.600

Load Name	Tholdup Min	Tholdup (ms)	Ref Tds (ms)	from which Tdl (ms)	Load = 0 Tdls (ms)
+5V	13.00	59.75	59.41	601.21	541.80
+12V	13.00	60.37	59.41	601.21	541.80
-12V	13.00	62.12	59.41	601.21	541.80
+3.3V	13.00	70.35	59.41	601.21	541.80
+5Vsb	*****	601.21	59.41	601.21	541.80
+12V2 (A)	13.00	59.41	59.41	601.21	541.80

=====

STEP.33(UUT Test seq.33) : Static Test ---- (2'406) ----- PASS

Vin (V)= 0.00

Fin (Hz)= 60.00
 Delay Time (ms)= 1500.00

Load Name	Loading (A/Ohm/V)
+5V	7.620
+12V	7.530
-12V	0.210
+3.3V	10.670
+5Vsb	2.130
+12V2 (A)	10.260

Load Name	Vout Max	Vout Min	Vout (V)	Iout Max	Iout Min	Iout (A)
+5V	*****	*****	0.000	*****	*****	0.000
+12V	*****	*****	0.007	*****	*****	0.000
-12V	*****	*****	-0.025	*****	*****	0.000
+3.3V	*****	*****	0.000	*****	*****	0.000
+5Vsb	*****	*****	0.016	*****	*****	0.000
+12V2 (A)	*****	*****	0.007	*****	*****	0.000

	Max	Min	Reading
Pout (W)	*****	*****	0.00

=====

STEP.34(UUT Test seq.34) : Turn On & Sequence Test(115V 20%) ---- (3'141) - PASS

Vin (V)= 115.00 Fin (Hz)= 60.00 On Phase Delay(ms)= 0.00
 UUT Off Time (s)= 0.50

Load Name	Loading (A/Ohm/V)	TTL Index	Trigger Level	Start Trigger	End Trigger	VcmpA (V)	VcmpB (V)
+5V	1.520	1	5	5	2	4.750	5.500
+12V	1.510	2	5	5	2	11.400	13.200
-12V	0.040	3	5	5	2	-10.800	-13.800
+3.3V	2.130	4	5	5	2	3.130	3.630
+5Vsb	0.430	5	1	1	5	4.750	5.500
+12V2 (A)	2.050	6	5	5	2	11.400	13.200

Load Name	Ton Max	Ton Min	Ton (ms)
+5V	500.00	150.00	308.13
+12V	500.00	150.00	308.09
-12V	500.00	150.00	308.39
+3.3V	500.00	150.00	310.78
+5Vsb	*****	*****	369.31
+12V2 (A)	500.00	150.00	307.99

Ref Ton From which Load = 0
 Reading

Tds (ms)	307.99
Tdl (ms)	369.31
Tdls (ms)	61.33

=====

STEP.35(UUT Test seq.35) : L Hold On Adjust Test Timeout(115V 20%) ---- (1: PASS

Vin (V)= 115.00 Fin (Hz)= 60.00 Delay Time (ms)= 1500.00
 Max time(s) = 60

Message = 50% of Load

Load Name	Loading (A/Ohm/V)	Vout Adjust (V)	Vout Max	Vout Min	Vout (V)
+5V	1.520	5.000	5.250	4.750	5.041
+12V	1.510	12.000	12.600	11.400	12.099
-12V	0.040	-12.000	-13.200	-10.800	-11.832
+3.3V	2.130	3.300	3.465	3.135	3.411
+5Vsb	0.430	5.000	5.250	4.750	4.986
+12V2 (A)	2.050	12.000	12.600	11.400	12.047

STEP.36(UUT Test seq.36) : Input Output Test(115V 20%) ---- (1'890) ----- FAIL

Vin (V)= 115.00 Fin (Hz)= 60.00 Delay Time (ms)= 1500.00

	Max	Min	Reading
Vinrms (V)	*****	*****	115.53
Iinrms (A)	*****	*****	0.65
Iinpk+ (A)	*****	*****	1.11
Iinpk- (A)	*****	*****	1.11
Pin (W)	*****	*****	72.23
Pout (W)	*****	*****	60.02
PF (0~1)	*****	0.9000	0.9668
Eff (%)	*****	85.00	??83.09

Load Name	Loading (A/Ohm/V)	Vout Max	Vout Min	Vout (V)	Iout Max	Iout Min	Iout (A)
+5V	1.520	5.250	4.750	5.041	*****	*****	1.506
+12V	1.510	12.600	11.400	12.099	*****	*****	1.489
-12V	0.040	-13.200	-10.800	-11.832	*****	*****	0.039
+3.3V	2.130	3.465	3.135	3.411	*****	*****	2.127
+5Vsb	0.430	5.250	4.750	4.986	*****	*****	0.428
+12V2 (A)	2.050	12.600	11.400	12.047	*****	*****	2.039

STEP.37(UUT Test seq.37) : Noise Test(115V 20%) ---- (1'437) ----- PASS

Vin (V)= 115.00 Fin (Hz)= 60.00 Delay Time (ms)= 500.00

Load Name	Noise Range (V)	Noise B.W (MHz)	Loading (A/Ohm/V)	Vpp Noise Max	Vpp Noise (mV)
+5V	2.000	20.0000	1.520	0.050	0.007
+12V	2.000	20.0000	1.510	0.120	0.014
-12V	2.000	20.0000	0.040	0.200	0.018
+3.3V	2.000	20.0000	2.130	0.050	0.007
+5Vsb	2.000	20.0000	0.430	0.050	0.011
+12V2 (A)	2.000	20.0000	2.050	0.120	0.016

STEP.38(UUT Test seq.38) : Hold Up & Sequence Test(115V 20%) ---- (7'688) - PASS

Vin (V)= 115.00 Fin (Hz)= 60.00 Delay Time (ms)= 1500.00
 On Phase Delay(ms)= 4.17 UUT Off Time (s)= 3.00

TTL Index	Trigger Level
1	1.00

2 1.00
3 1.00
4 1.00

Load Name	Loading (A/Ohm/V)	Start Trigger	End Trigger	VcmpA (V)	VcmpB (V)
+5V	1.520	8	12	4.500	5.250
+12V	1.510	8	12	10.800	12.600
-12V	0.040	8	12	-10.800	-13.200
+3.3V	2.130	8	12	2.970	3.460
+5Vsb	0.430	8	12	4.500	5.250
+12V2 (A)	2.050	8	12	10.800	12.600

Load Name	Tholdup Min	Tholdup (ms)	Ref Tholdup Tds (ms)	from which Tdl (ms)	Load = 0 Tdls (ms)
+5V	13.00	158.18	158.02	1863.50	1705.48
+12V	13.00	158.90	158.02	1863.50	1705.48
-12V	13.00	161.96	158.02	1863.50	1705.48
+3.3V	13.00	181.23	158.02	1863.50	1705.48
+5Vsb	*****	1863.50	158.02	1863.50	1705.48
+12V2 (A)	13.00	158.02	158.02	1863.50	1705.48

=====

STEP.39(UUT Test seq.39) : Static Test ---- (2'438) ----- PASS

Vin (V)= 0.00
Fin (Hz)= 60.00
Delay Time (ms)= 1500.00

Load Name	Loading (A/Ohm/V)
+5V	7.620
+12V	7.530
-12V	0.210
+3.3V	10.670
+5Vsb	2.130
+12V2 (A)	10.260

Load Name	Vout Max	Vout Min	Vout (V)	Iout Max	Iout Min	Iout (A)
+5V	*****	*****	0.000	*****	*****	0.000
+12V	*****	*****	0.009	*****	*****	0.000
-12V	*****	*****	-0.022	*****	*****	0.000
+3.3V	*****	*****	0.000	*****	*****	0.000
+5Vsb	*****	*****	0.018	*****	*****	0.000
+12V2 (A)	*****	*****	0.008	*****	*****	0.000

	Max	Min	Reading
Pout (W)	*****	*****	0.00

=====

STEP.40(UUT Test seq.40) : Turn On & Sequence Test(230V 10%) ---- (3'031) - PASS

Vin (V)= 230.00 Fin (Hz)= 50.00 On Phase Delay(ms)= 0.00
UUT Off Time (s)= 0.50

Load	Loading	TTL	Trigger	Start	End	VcmpA	VcmpB
------	---------	-----	---------	-------	-----	-------	-------

Name	(A/Ohm/V)	Index	Level	Trigger	Trigger	(V)	(V)
+5V	0.760	1	5	5	2	4.750	5.500
+12V	0.750	2	5	5	2	11.400	13.200
-12V	0.020	3	5	5	2	-10.800	-13.800
+3.3V	1.070	4	5	5	2	3.130	3.630
+5Vsb	0.210	5	1	1	5	4.750	5.500
+12V2 (A)	1.030	6	5	5	2	11.400	13.200

Load Name	Ton Max	Ton Min	Ton (ms)
+5V	500.00	150.00	307.11
+12V	500.00	150.00	307.05
-12V	500.00	150.00	307.21
+3.3V	500.00	150.00	309.79
+5Vsb	*****	*****	123.56
+12V2 (A)	500.00	150.00	307.00

Ref Ton From which Load = 0
Reading

Tds	(ms)	123.56
Tdl	(ms)	309.79
Tdls	(ms)	186.23

=====

STEP.41(UUT Test seq.41) : L Hold On Adjust Test Timeout(230V 10%) ---- (1: PASS

Vin (V)= 230.00 Fin (Hz)= 50.00 Delay Time (ms)= 1500.00
Max time(s) = 60

Message = 20W of Load

Load Name	Loading (A/Ohm/V)	Vout Adjust (V)	Vout Max	Vout Min	Vout (V)
+5V	0.760	5.000	5.250	4.750	5.059
+12V	0.750	12.000	12.600	11.400	12.117
-12V	0.020	-12.000	-13.200	-10.800	-11.811
+3.3V	1.070	3.300	3.465	3.135	3.420
+5Vsb	0.210	5.000	5.250	4.750	5.001
+12V2 (A)	1.030	12.000	12.600	11.400	12.090

=====

STEP.42(UUT Test seq.42) : Input Output Test(230V 10%) ---- (1'891) ----- PASS

Vin (V)= 230.00 Fin (Hz)= 50.00 Delay Time (ms)= 1500.00

	Max	Min	Reading
Vinrms (V)	*****	*****	231.26
Iinrms (A)	*****	*****	0.22
Iinpk+ (A)	*****	*****	0.41
Iinpk- (A)	*****	*****	0.41
Pin (W)	*****	*****	37.80
Pout (W)	*****	*****	29.92
PF (0~1)	*****	*****	0.7519
Eff (%)	*****	*****	79.17

Load Name	Loading (A/Ohm/V)	Vout Max	Vout Min	Vout (V)	Iout Max	Iout Min	Iout (A)
+5V	0.760	5.250	4.750	5.059	*****	*****	0.741

+12V	0.750	12.600	11.400	12.117	*****	*****	0.739
-12V	0.020	-13.200	-10.800	-11.811	*****	*****	0.019
+3.3V	1.070	3.465	3.135	3.420	*****	*****	1.060
+5Vsb	0.210	5.250	4.750	5.001	*****	*****	0.209
+12V2 (A)	1.030	12.600	11.400	12.091	*****	*****	1.019

=====

STEP.43(UUT Test seq.43) : Noise Test(230V 10%) ---- (1'438) ----- PASS

Vin (V)= 230.00 Fin (Hz)= 50.00 Delay Time (ms)= 500.00

Load Name	Noise Range (V)	Noise B.W (MHz)	Loading (A/Ohm/V)	Vpp Noise Max	Vpp Noise (mV)
+5V	2.000	20.0000	0.760	0.050	0.005
+12V	2.000	20.0000	0.750	0.120	0.014
-12V	2.000	20.0000	0.020	0.200	0.017
+3.3V	2.000	20.0000	1.070	0.050	0.009
+5Vsb	2.000	20.0000	0.210	0.050	0.012
+12V2 (A)	2.000	20.0000	1.030	0.120	0.014

=====

STEP.44(UUT Test seq.44) : Hold Up & Sequence Test(230V 10%) ---- (9'516) - PASS

Vin (V)= 230.00 Fin (Hz)= 50.00 Delay Time (ms)= 1500.00
On Phase Delay(ms)= 4.17 UUT Off Time (s)= 3.00

TTL Index	Trigger Level
1	1.00
2	1.00
3	1.00
4	1.00

Load Name	Loading (A/Ohm/V)	Start Trigger	End Trigger	VcmpA (V)	VcmpB (V)
+5V	0.760	8	12	4.500	5.250
+12V	0.750	8	12	10.800	12.600
-12V	0.020	8	12	-10.800	-13.200
+3.3V	1.070	8	12	2.970	3.460
+5Vsb	0.210	8	12	4.500	5.250
+12V2 (A)	1.030	8	12	10.800	12.600

Load Name	Tholdup Min	Tholdup (ms)	Ref Tholdup Tds (ms)	from which Tdl (ms)	Load = 0 Tdls (ms)
+5V	13.00	286.07	285.85	3552.20	3266.35
+12V	13.00	286.73	285.85	3552.20	3266.35
-12V	13.00	290.43	285.85	3552.20	3266.35
+3.3V	13.00	323.97	285.85	3552.20	3266.35
+5Vsb	*****	3552.20	285.85	3552.20	3266.35
+12V2 (A)	13.00	285.85	285.85	3552.20	3266.35

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STEP.45(UUT Test seq.45) : Static Test ---- (2'438) ----- PASS

Vin (V)= 0.00
Fin (Hz)= 60.00
Delay Time (ms)= 1500.00

Load Loading

Name	(A/Ohm/V)
+5V	7.620
+12V	7.530
-12V	0.210
+3.3V	10.670
+5Vsb	2.130
+12V2 (A)	10.260

Load Name	Vout Max	Vout Min	Vout (V)	Iout Max	Iout Min	Iout (A)
+5V	*****	*****	0.000	*****	*****	0.000
+12V	*****	*****	0.009	*****	*****	0.000
-12V	*****	*****	-0.018	*****	*****	0.000
+3.3V	*****	*****	0.000	*****	*****	0.000
+5Vsb	*****	*****	0.018	*****	*****	0.000
+12V2 (A)	*****	*****	0.009	*****	*****	0.000

	Max	Min	Reading
Pout (W)	*****	*****	0.00

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STEP.46(UUT Test seq.46) : L Hold On Adjust Test Timeout(115V 20%) ---- (1: PASS

Vin (V)= 115.00 Fin (Hz)= 60.00 Delay Time (ms)= 1500.00
Max time(s) = 60

Message = 50% of Load

Load Name	Loading (A/Ohm/V)	Vout Adjust (V)	Vout Max	Vout Min	Vout (V)
+5V	1.520	5.000	5.250	4.750	5.040
+12V	1.510	12.000	12.600	11.400	12.107
-12V	0.040	-12.000	-13.200	-10.800	-11.844
+3.3V	2.130	3.300	3.465	3.135	3.411
+5Vsb	0.430	5.000	5.250	4.750	4.987
+12V2 (A)	2.050	12.000	12.600	11.400	12.056

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STEP.47(UUT Test seq.47) : Turn On & Sequence Test(230V 100%) ---- (3'016) PASS

Vin (V)= 230.00 Fin (Hz)= 50.00 On Phase Delay(ms)= 0.00
UUT Off Time (s)= 0.50

Load Name	Loading (A/Ohm/V)	TTL Index	Trigger Level	Start Trigger	End Trigger	VcmpA (V)	VcmpB (V)
+5V	7.620	1	5	5	2	4.750	5.500
+12V	7.530	2	5	5	2	11.400	13.200
-12V	0.210	3	5	5	2	-10.800	-13.800
+3.3V	10.670	4	5	5	2	3.130	3.630
+5Vsb	2.130	5	1	1	5	4.750	5.500
+12V2 (A)	10.260	6	5	5	2	11.400	13.200

Load Name	Ton Max	Ton Min	Ton (ms)
+5V	500.00	150.00	305.17
+12V	500.00	150.00	305.58
-12V	500.00	150.00	306.64
+3.3V	500.00	150.00	308.48
+5Vsb	*****	*****	124.87

+12V2 (A) 500.00 150.00 304.12

Ref Ton From which Load = 0
Reading

Tds (ms) 124.87
Tdl (ms) 308.48
Tdls (ms) 183.62

STEP.48(UUT Test seq.48) : L Voltage regulation test 3(180/230/264V) ---- (PASS

Vin-1 (V)= 180.00 Fin-1 (Hz)= 47.00
Vin-2 (V)= 230.00 Fin-2 (Hz)= 50.00
Vin-3 (V)= 264.00 Fin-3 (Hz)= 53.00
Delay Time (ms)= 1500.00

Load Name	Loading-1 (A/Ohm/V)	Loading-2 (A/Ohm/V)	Loading-3 (A/Ohm/V)
+5V	7.620	7.620	7.620
+12V	7.530	7.530	7.530
-12V	0.210	0.210	0.210
+3.3V	10.670	10.670	10.670
+5Vsb	2.130	2.130	2.130
+12V2 (A)	10.260	10.260	10.260

Load Name	Vout-1 Max	Vout-1 Min	Vout-1 (V)	Vout-2 Max	Vout-2 Min	Vout-2 (V)
+5V	5.250	4.750	4.925	5.250	4.750	4.925
+12V	12.600	11.400	11.937	12.600	11.400	11.936
-12V	-13.200	-10.800	-12.001	-13.200	-10.800	-12.000
+3.3V	3.465	3.135	3.342	3.465	3.135	3.341
+5Vsb	5.250	4.750	4.874	5.250	4.750	4.874
+12V2 (A)	12.600	11.400	11.659	12.600	11.400	11.656

Load Name	Vout-3 Max	Vout-3 Min	Vout-3 (V)
+5V	5.250	4.750	4.925
+12V	12.600	11.400	11.936
-12V	-13.200	-10.800	-12.001
+3.3V	3.465	3.135	3.341
+5Vsb	5.250	4.750	4.874
+12V2 (A)	12.600	11.400	11.656

Load Name	dVout 1>2 Max	dVout 1>2 Min	dVout 1>2 (V)	dVout 1>3 Max	dVout 1>3 Min	dVout 1>3 (V)
+5V	*****	*****	0.000	*****	*****	0.001
+12V	*****	*****	-0.001	*****	*****	-0.001
-12V	*****	*****	-0.001	*****	*****	0.000
+3.3V	*****	*****	-0.000	*****	*****	-0.000
+5Vsb	*****	*****	0.000	*****	*****	0.000
+12V2 (A)	*****	*****	-0.003	*****	*****	-0.004

STEP.49(UUT Test seq.49) : Hold Up & Sequence Test(115V 80%) ---- (6'375) - PASS

Vin (V)= 115.00 Fin (Hz)= 60.00 Delay Time (ms)= 1500.00
On Phase Delay(ms)= 4.17 UUT Off Time (s)= 3.00

TTL Trigger

Index	Level
1	1.00
2	1.00
3	1.00
4	1.00

Load Name	Loading (A/Ohm/V)	Start Trigger	End Trigger	VcmpA (V)	VcmpB (V)
+5V	6.090	8	12	4.500	5.250
+12V	6.020	8	12	10.800	12.600
-12V	0.170	8	12	-10.800	-13.200
+3.3V	8.530	8	12	2.970	3.460
+5Vsb	1.710	8	12	4.500	5.250
+12V2 (A)	8.210	8	12	10.800	12.600

Load Name	Tholdup Min	Tholdup (ms)	Ref Tds (ms)	Tholdup from which Tdl (ms)	Load = 0 Tdls (ms)
+5V	13.00	51.37	51.07	483.45	432.39
+12V	13.00	52.05	51.07	483.45	432.39
-12V	13.00	53.91	51.07	483.45	432.39
+3.3V	13.00	60.89	51.07	483.45	432.39
+5Vsb	*****	483.45	51.07	483.45	432.39
+12V2 (A)	13.00	51.07	51.07	483.45	432.39

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STEP.50 (UUT Test seq.50) : Static Test ---- (2'422) ----- PASS

Vin (V)= 0.00

Fin (Hz)= 60.00

Delay Time (ms)= 1500.00

Load Name	Loading (A/Ohm/V)
+5V	7.620
+12V	7.530
-12V	0.210
+3.3V	10.670
+5Vsb	2.130
+12V2 (A)	10.260

Load Name	Vout Max	Vout Min	Vout (V)	Iout Max	Iout Min	Iout (A)
+5V	*****	*****	0.000	*****	*****	0.000
+12V	*****	*****	0.011	*****	*****	0.000
-12V	*****	*****	-0.024	*****	*****	0.000
+3.3V	*****	*****	0.000	*****	*****	0.000
+5Vsb	*****	*****	0.016	*****	*****	0.000
+12V2 (A)	*****	*****	0.010	*****	*****	0.000

	Max	Min	Reading
Pout (W)	*****	*****	0.00

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STEP.51 (UUT Test seq.51) : Over Load Protection Test(5V) ---- (38'641) ----- PASS

Vin (V)= 230.00 Fin (Hz)= 50.00 Delay Time (ms)= 1500.00

UUT Off Time (s)= 3.00

Step Time (ms)= 500.00 Recovery Time Out (ms)= 0.00
 Volp (V)= 1.000 Recovery Voltage (V)= 4.700
 OLP Test Channel= 1
 UUT Type = 1 (0:Auto Recovery 1:Power Off Reset)

Testing Message: OLP Working

Load Name	Loading (A/Ohm/V)
+5V	1.520
+12V	1.510
-12V	0.040
+3.3V	2.130
+5Vsb	0.430
+12V2 (A)	2.050

Loading Start	Loading End	Loading Step	Loading Recovery
10.000	45.000	0.500	0.500

	Max	Min	Reading
OLP Trip Point (A)	*****	24.000	42.000

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STEP.53(UUT Test seq.53) : L Power at no load ---- (3'437) ----- PASS

Vin (V)= 230.00 Fin (Hz)= 50.00 Delay Time (ms)= 2500.00

Load Name	Loading (A/Ohm/V)
+5V	0.000
+12V	0.000
-12V	0.000
+3.3V	0.000
+5Vsb	0.000
+12V2 (A)	0.000

Load Name	Vout Max	Vout Min	Vout (V)
+5V	*****	*****	0.000
+12V	*****	*****	0.009
-12V	*****	*****	-0.032
+3.3V	*****	*****	0.000
+5Vsb	5.250	4.750	5.015
+12V2 (A)	*****	*****	0.009

	Max	Reading
Pin (W)	0.50	0.38