GlobTek, Inc.

Internal Engineering Test Results Summary

Date: 1/5/12

Model No.: GT-41133-9015-3.0-T3

Part No.: TR9CE7500CCP-N(RV)

RFP #: TBD

Test Objective:

Currently, GT-41133-9015-3.0-T3 is rated at 90 watts. Our objective is load and thermal test the power supply at 100 watts and insure that the device meets all Globtek requirements at this increased load

Results: Pass/Fail Pass

Remarks:

The power supply (GT-41133-9015-3.0-T3) passed load tests at 90Vac, 120Vac, 207Vac and 264Vac

GT--41133-9015-3.0-T3 passed load and thermal tests at 207Vac and 264Vac. The device failed Thermal test at 90Vac. However since the power supply is designated for the European market, this input is irrelevant.

The device was tested at 100 watts output for approximately (14) hours

Unit 1

1-5-12 model = GT-41133-9015-3.0-T3
PN = TRACE 7500 CCP-N (RV)
Output: 12V / 7.5 amp / 90 watts [*TESTED: 12 Vdc / 8.4 amp / 100 W]

	V_{in}	I_n	P_{in}	V_{out}	I_{out}	OLP	Short
207 Vac	207.8 Vac	36.7ma	.57w	12.15 Vdc	0 amp		
	207.4 Vac	249.4	28.6w	12.04	2.1		
	207.5 Vac	300.3	57.4w	11.94	4.2		
	207.0	436.4ma	84.8w	11.84	6.3		
	207.2	512.1	100.8	11.78	7.5		
	207.8	567.2ma	112.8	11.75	8.4 amp	11.70 Vdc 9.8 amp	pass
			eff = $\frac{P_{out}}{P_{in}}$ =		87.5%		

Burn Time = over 13 Hours
Pass Thermal Test at: 207 Vac
264 Vac

(1)

1-3-12

Unit 1

GT-41133-9015-3.0-T3

Rated: 12V, 7.5amp, 90 watts
Test: 12V, 8.4, 100.8 watts

11.4 < 12 > 12.6

90 Vac	Vin	± in	Pin	Vout	Iout	OLP	Short
	90.3	16.6ma	.14 w	12.14	0		
	90.5	437.9ma	28.5	12.03	2.1 amp		
	90.5	640.0 ma	57.4	11.92	4.2 amp		
	90.3	.962amp	86.4	11.83	6.3 amp		
	90.7	1.145 amp	103.5	11.76	7.5 amp		
	90.4	1.295	116.6 w	11.72	8.4 amp	11.69V 9.4amp	pass
					eff = $\frac{P_{out}}{P_{in}}$ = 84.43%		
120	120.4	21.7ma	.15	12.14 VDC	0		
	120.0	363.9ma	28.2	12.04	2.1 amp		
	120.2	483.4ma	56.6	11.93	4.2		
	120.5	.714amp	85.1 w	11.84 VDC	6.3 amp		
	120.2	.853amp	101.7 w	11.78	7.5		
	120.6	.953amp	114.2 w	11.73 VDC	8.4 amp	11.71 VDC 9.4amp	pass
					eff = 86.28%		
264	264.8	47.1ma	1.04w	12.14 VDC	0		
	264.8	212.4ma	29.5w	12.04 VDC	2.1amp		
	264.7	253.7ma	58.1w	11.95 VDC	4.2		
	264.0	355.5ma	55.3 w	11.85 VDC	6.3 amp		
	264.5	414.1ma	101.3 w	11.79	7.5		
	264.1	459.8ma	113.3w	11.75	8.4amp	11.70 VDC 9.69amp	pass
					eff = 87.11%		

Test at 207 Vac
Thermal Test Pass

THERMAL TEST

DATE: 1-4-11	MODEL: GF-4133-9015-3.0-T3	S/N: Unit 1			TESTED BY: cw		
TIME MEASUREMENT MADE	START 8 AM	8:30 AM	9:00 AM	9:30 AM	10:00 AM	11:00 AM	12:00 PM
INPUT VOLTAGE (V)	207.3	207.5 Vac	207.1	207.4	207.1	207.5	207.0	207.3
INPUT CURRENT (A)	574.3 ma	568.2 ma	569.4 ma	569.1	570.1 ma	569.4	570.6	569.9
INPUT POWER (W)	114 w	112.9 w	112.8	112.9	112.8 w	112.9	112.9	112.8
OUTPUT VOLTAGE (V)	11.74	11.74 Vdc	11.74	11.74	11.74 Vdc	11.74	11.74	
OUTPUT CURRENT (A)	8.4	8.4 amp	8.4	8.4	8.4	8.4	8.4	8.4

CHANNEL	COMPONENT NAME	TEMPERATURE READINGS IN C						
1	FET 1 (Bottom MOS)	72.0	87.2	94.0	96.7	99.3	100.3	100.8
2	FET 2 (Bottom MOS)	66.3	91.5	88.2	90.9	93.4	94.5	94.8
3	Bridge	61.7	75.6	81.8	84.2	86.6	87.4	88.1
4	C1 (in)	48.1	62.5	68.8	71.5	73.9	74.6	75.2
5	Q3 (Heat sink)	64.8	74.7	84.8	87.3	89.4	90.1	90.6
6	Q3 (Heat sink)	63.1	76.4	82.4	84.9	86.8	87.6	88.1
7	C10 out	68.5	81.9	87.8	90.1	92.0	92.9	93.1
8	T1 winding	69.9	84.4	91.1	93.8	95.9	96.8	97.4
9	L1 (in)	57.6	72.9	79.5	82.2	84.5	85.6	86.1
10	case Top	41.1	46.9	50.1	51.7	52.4	53.0	53.5
11	case bottom	41.4	53.9	61.1	63.8	67.3	69.0	69.2
12	Room 21.8°C	23.3°C	26.7°C	24°C	24.6°C	25.6	25.4	25.4
13								
14								
15								
16					(2) HR	(3) HR	(4) HR	5HR
17			(1) HR					
18								
19								
20	eff = Power out / Power In = 87.35%							
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

COMMENTS: Power Supply rated at: 12V / 7.5amp / 90 watts
Power Supply tested at: 12V / 8.4amp / 100 watts

3

Test at 264Vac

Thermal Test Pass

THERMAL TEST

DATE: 1-4-11	MODEL: 6T-4133-9018-3.0-T3	S/N: Unit 1				TESTED BY: CN
TIME MEASUREMENT MADE	START 1:18	2:18 PM	3:29	4:21	5:00 PM	
INPUT VOLTAGE (V)	264.8	264.7	264.5	264.7	264.9	
INPUT CURRENT (A)	458.8ma	458.1ma	458.3	458.6	460.1ma	
INPUT POWER (W)	112.1	112.9	112.9	112.8	112.8	
OUTPUT VOLTAGE (V)	11.73	11.73	11.73	11.73	11.73	
OUTPUT CURRENT (A)	8.4a	8.4amp	8.4	8.4	8.4	

CHANNEL	COMPONENT NAME	TEMPERATURE READINGS IN C					
1	FET 1 (Bottom DAS)	99.6	99.4	99.4	99.2		
2	FET 2 (Bottom DAS)	93.3	93.2	93.1	93.0		
3	Bridge	84.4	84.2	84.2	84.1		
4	C1 (in)	73.5	73.3	73.3	73.1		
5	Q3 (Diode out)	89.5	89.2	89.2	89.2		
6	Q3 (Diode out)	87.0	86.8	86.8	86.8		
7	C10 out	92.5	92.2	92.2	92.5		
8	T1 winding	96.2	95.6	95.5	95.9		
9	L1 (in)	83.9	83.2	83.0	83.4		
10	case Top	52.4	51.4	51.4	52.4		
11	case bottom	68.5	64.5	64.8	64.6		
12	Room 21.8°C	26.2°C	26.3°C	25.7	25.7		
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							

4 hours

CN

COMMENTS: Power Supply rated at: 12V / 7.5amp / 90 watts

Power Supply tested at: 12V / 8.4amp / 100 watts

90Vac
Thermal Test Fail

THERMAL TEST

DATE: 1-3-11	MODEL: GT-4133-9015-3.0-T3	S/N: Unit 1				TESTED BY: CW
TIME MEASUREMENT MADE 3PM	START 3PM	3:30PM	4:00 PM	4:30PM	5:00 PM	6:00
INPUT VOLTAGE (V)	90.2	90.6	90.6	90.6	90.4	91.5
INPUT CURRENT (A)	1.295amp	1.285amp	1.292a	1.294a	1.301amp	1.28
INPUT POWER (W)	116.4W	115.9W	116.3W	116.4W	116.8	116.7
OUTPUT VOLTAGE (V) Led Blue	11.74	11.74	11.74	11.74W	11.73	11.17
OUTPUT CURRENT (A)	8.4amp	8.40am	8.40	8.40	8.40	8.40

CHANNEL	COMPONENT NAME	TEMPERATURE READINGS IN C					
1	FET 1 (Bottom DAS)	81.1	101.3	112.6	117.2	118.2	
2	FET 2 (Bottom DAS)	78.3	98.5	110.3	114.4	115.0	
3	Bridge	86.2	104.3	114.4	118.1	118.7	
4	C1 (in)	60.7	79.2	89.7	93.7	94.3	
5	Q3 (Middle out)	69.6	89.1	98.4	102.1	103	
6	Q3 (Right out)	68.1	87.0	95.9	99.4	100	
7	C10 out	73.2	91.3	99.9	103.4	104	
8	T1 windings	77.0	97.8	108.2	112.3	113.3	
9	L1 (in)	68.1	89.4	100.4	104.6	105.4	
10	Case Top	45.5	56.1	59.6	62.0	62.5	
11	Case bottom		59.1	68.9	73.5	73.1	
12	Room 24.1°C	23.3°C	24.0	24.7	24.9	25	
13							
14							
15							
16							
17							
18							
19							
20	eff = Power Out / Power In = 84.36%						
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							

2HRS

3HRS

COMMENTS: Power supply rated at: 12V / 7.5amp / 90 watts
Power supply tested at: 12V / 8.4amp / 100 watts

Level	Base Part Number To Pull	Part Quantity	Notes	Finished Part
1	TR9CE7500CCP-N(RV)	1		TR9KE5000CCP-N(RV)

QTY

model # GT-41133-9015-3.0-T3

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INVENTORY PICKLIST

12/27/2011 1:55:05 PM

TR9CE7500CCP-N(RV) | # GT-41133-9015-3.0-T3, SWITC

Location	Lot Number	Qty	Page 1 of 1
1E2704			
1E2704	3030227-10-12-5	5	
1E3201			
1E3201	3030227-10-1-20	20	
1E3201	3030227-10-6-20	20	
1E3201	3030227-10-4-20	20	
1E3201	3030227-10-5-20	20	
1E3201	3030227-10-3-20	20	

TOTAL AVAILABLE 105

NOTES:

100W Test at 100W

customer wants 100W

PICKER: B.G.

Test = 100 watt / P = I(E)

100 / 12 = I = 8.3 amp

Current Rating

Out

12V 7.5amp

90 watts

1 Out

12V 8.4amp

100.8 watts