

NOTES:

1. SET VOLTAGE: 14.5 ± 0.2
2. 45 AMP FET REGULATOR.
3. TOTAL REVERSE LEAK CURRENT:
ALL UNITS TO FULFILL REQUIREMENT OF .02mA OR LESS AT 20C.
4. DIODE FORWARD VOLTAGE:
ALL UNITS TO FULFILL REQUIREMENT OF LESS THAN .77V.
5. FET ON VOLTAGE:
ALL UNITS TO FULFILL REQUIREMENT OF LESS THAN .45V.
6. MATES WITH FURUKAWA
 - (A) Connector: QLW-A-B3F-B (1)
Terminal: QLW-F-300 (2)
Wire Seal: QLW-W-300 (2)
Seal: QLW-W-D (1)
 - (B) Connector: QLW-A-3F-GR (1)
Terminal: QLW-F-300 (3)
Wire Seal: QLW-W-300 (3)
7. SEE SPEC LTR2012-020 THRU LTR2012-029 FOR QUALIFICATION TEST.

DRN	CHK	DESCRIPTION	ECN #	REV	DATE	PROPRIETARY AND CONFIDENTIAL
JG				P01	3/12/12	THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF TROMBETTA - ELECTRONICS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF TROMBETTA - ELECTRONICS IS PROHIBITED.
JG		ADDED NOTES 3, 4, 5		P02	10/12/12	
JG		UPDATED CHARTS ON PG. 1, UPDATED NOTES ON PG. 1		P03	11/18/12	
		QUOTE				

		UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL: ± .015 ANGULAR: ± .010 TWO PLACE DECIMAL: ± .005 THREE PLACE DECIMAL: ± .001 METRIC IN (mm): ± .050	NAME	DATE	TROMBETTA - ELECTRONICS 197 Commercial St Malden, Ma. 02148
		MATERIAL	JG	3/12/12	
		FINISH			
		APPLICATION			
NEXT ASSY		USED ON			TITLE:
					45A FET REGULATOR
			SIZE	DWG. NO.	REV
			B	A3481	P03
			SCALE: N/A	WEIGHT:	SHEET 1 OF 2

CHART 1 NO AIRFLOW MEASUREMENTS TAKEN AT 20°C AMBIENT

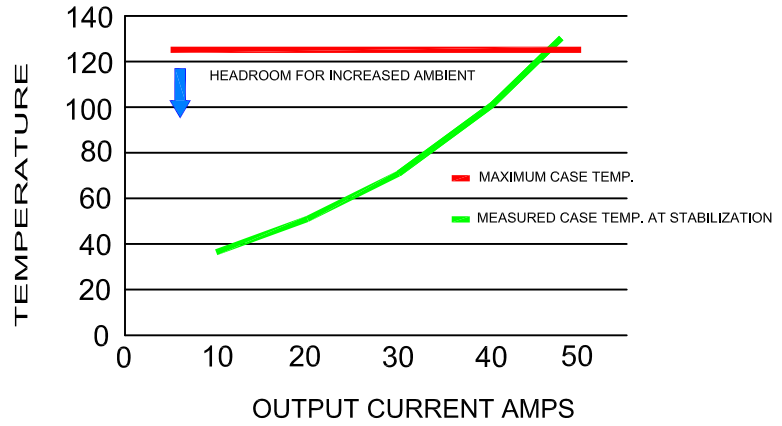
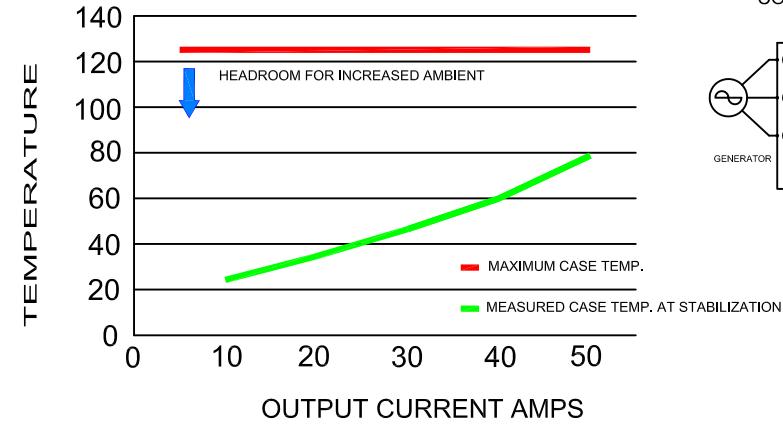
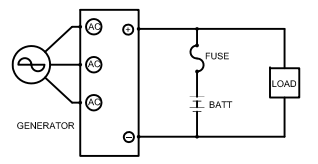


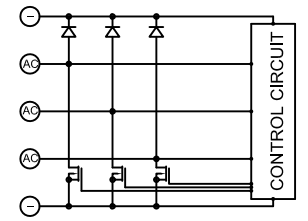
CHART 2 1 METER PER SECOND AIRFLOW MEASUREMENTS TAKEN AT 20°C AMBIENT



CONNECTING DIAGRAM



CIRCUIT DIAGRAM



REGULATOR RATINGS			
STORAGE TEMPERATURE		MIN -30°C TO MAX +80°C	
OUTPUT CURRENT		50 AMPS AT CASE TEMP OF 125°C	SEE CHART #1 & #2
INPUT FREQUENCY		UP TO 3KHz	BASED ON RPM AND NUMBER OF STATOR MAGNETS
ENVIRONMENTAL		SEE REPORT LTR2012-020 THRU 029	
TEMPERATURE RATINGS			
FET JUNCTIONS	Tj	MAX 175°C	PER MANUFACTURER'S SPECIFICATION
DIODE JUNCTIONS	Td	MAX 150°C	PER MANUFACTURER'S SPECIFICATION
CASE TEMPERATURE	Tc	MAX 125°C	SEE CHART #1 & #2
AMBIENT TEMPERATURE NO AIRFLOW	Ta	MAX 80°C AT 30 AMPS OUTPUT	SEE CHART #1 NO AIRFLOW
	Ta	MAX 20°C AT 50 AMPS OUTPUT	SEE CHART #1 NO AIRFLOW
AMBIENT TEMPERATURE AIRFLOW 1 m/s	Ta	MAX 80°C AT 45 AMPS OUTPUT	SEE CHART #2 AIRFLOW 1 m/s
	Ta	MAX 75°C AT 50 AMPS OUTPUT	SEE CHART #2 AIRFLOW 1 m/s

QUOTE	PROD	DRN	CHK	DESCRIPTION/EDN#	REV	DATE	PROPRIETARY AND CONFIDENTIAL
		JG			P01	3/12/12	THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF TROMBETTA - ELECTRONICS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF TROMBETTA - ELECTRONICS IS PROHIBITED.
		JG		ADDED NOTES 3, 4, 5	P02	10/12/12	
		JG		UPDATED CHARTS ON PG 2. UPDATED NOTES ON PG 1	P03	11/19/12	

		UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULARS MMACH ± TWO PLACE DECIMAL ± 0.01 THREE PLACE DECIMAL ± 0.005 METRIC IN (mm)	NAME	DATE	TROMBETTA - ELECTRONICS 197 Commercial St Malden, Ma. 02148 TITLE: 45A FET REGULATOR SIZE B DWG. NO. A3481 REV P03 SCALE: N/A WEIGHT: SHEET 2 OF 2	
		MATERIAL	DRAWN	JG		3/12/12
		FINISH	CHECKED			
		APPLICATION	ENG APPR.			
		DO NOT SCALE DRAWING	MFG APPR.			
			COMMENTS:			