



DELTA TAU

Data Systems, Inc.

NEW IDEAS IN MOTION ...

Engineering Report


2/26/10

Subject: Geo Brick UL Approval

All versions of the standard Geo Brick Amplifiers have been UL registered. The standard Geo Brick refers to the following:

Part Number	Channels	AC Input	Current ratings
GBL4-xx-5xx-xxx	4	240 AC	5A continuous 10A peak
GBL4-xx-8xx-xxx	4	240 AC	8A continuous 16A peak
GBL6-xx-5xx-xxx	6	240 AC	5A continuous 10A peak and 15A continuous 30A Peak
GBL6-xx-8xx-xxx	6	240 AC	8A continuous 16A peak and 15A continuous 30A Peak
GBL8-xx-5xx-xxx	8	240 AC	5A continuous 10A peak
GBL8-xx-8xx-xxx	8	240 AC	8A continuous 16A peak

Agency Approvals

Description	Specifications
UL	UL508C File E307874
cUL	CSA C22.2 No. 14-05 File E307874
Mark of Conformance	

UL Test Summary

Test Name	Notes
Single Phase Test	Main AC input . Bring to steady state temp at full load then remove one phase.
In-operative blower motor test	Unplug one of the fans and run to steady state temp at full load
Dielectric Voltage-withstand Test	Bring to steady state temp at full load, then quickly setup and run Hi-pot test
Temperature Test	Run at full load and then read key components until steady state is reached at rated temperature.
Motor Overload Protection Test	Over current test for amplifier operation. I ² T protects the drive
Short Circuit Test	Run Servo Motors and then short one motor lead to another
Breakdown of Component Test	Destructive test. Shorting various key components including AC input to ground
Bus Capacitor Discharge Test	Test to see how long it takes for the bus to discharge from 340VDC to 50VDC
Bond Wire Overcurrent Test	Bonding conductor was caused to carry a current of twice the rated current (90A) for 4 minutes.
Bond Wire Limited Short Circuit	Bonding conductor was caused to carry a current of 2000A through a nonrenewable fuse that conducts twice its rated current for at least 12 seconds..
Resistance Measurement Test	Measure resistance from Chassis to GND

Power // Flexibility // Cost Effectiveness // Customer Service // Ease of Use

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