

# SYSTEM SPECIFICATIONS

SYSTEM MODEL NO. CZS-482550  
 SYSTEM RATING: 250 AMPS FOR 10 HOURS TO 1.75 VFC.  
 RECOMMENDED SYSTEM FLOAT VOLTAGE: 54.48 MIN. 56.2 MAX.  
 SYSTEM CUTOFF VOLTAGE: 42  
 FULL LOAD CURRENT: 200 ADC  
 OPEN CIRCUIT VOLTAGE: 49.6 - 51.6 VDC

NOTE: SYSTEM IS DESIGNED TO ACCOMMODATE A 250 AMP SPIKE

- 1 ALL RECOMMENDED CUSTOMER'S CABLE GAUGES ARE BASED ON TABLE 310-16 OF N.E.C. USING 75°C CABLE IN 30°C AMBIENT. ASSUMING CABINETS ARE FLUSH TO ONE ANOTHER INTERCABINET CABLING IS BASED ON TABLE 310-17 OF N.E.C. USING 90°C CABLE IN 30°C AMBIENT.

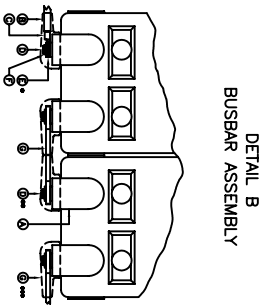
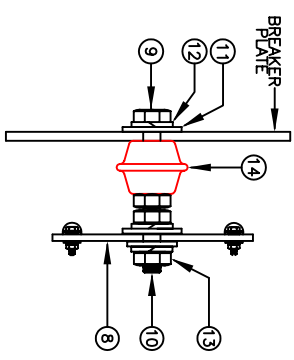
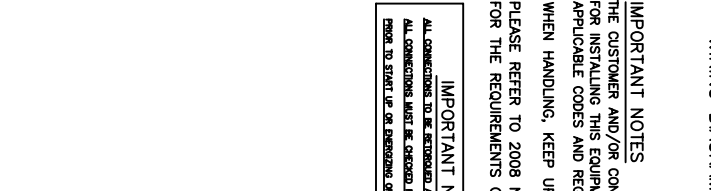
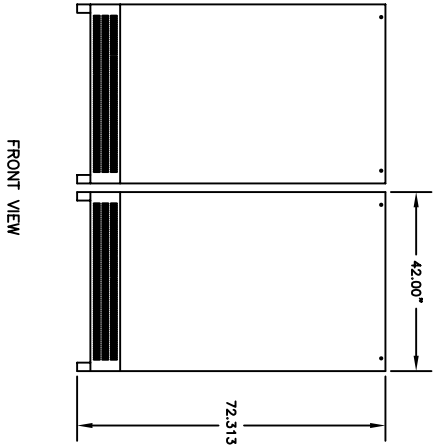
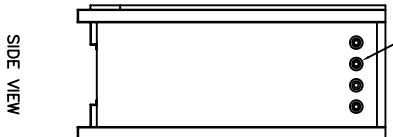
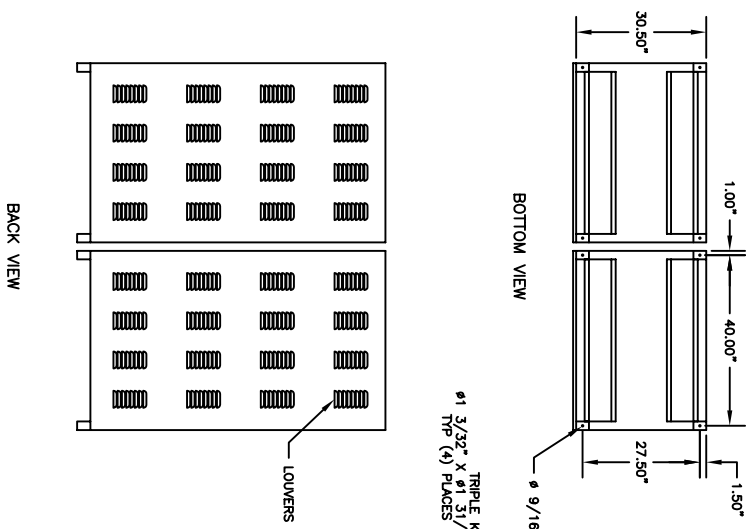
ANY DEVIATION FROM THIS CONFIGURATION REQUIRES THE CUSTOMER TO SIZE INTERCABINET CABLES RECOMMENDED BY N.E.C. TABLE 310-16 USING 75°C IN 30°C AMBIENT.

- 2 SEE BATTERY LABEL FOR TORQUE VALUES

- 3 USE INSULATED TOOLS FOR CABINET INSTALLATION. DO NOT ALLOW TOOLS OR CABLES TO REST ON BATTERIES.

PARALLEL CONNECTOR:  
 WIRE SIZE WILL BE SPECIFIED AS PER GAUGE (MINIMUM) TO BE USED. LENGTHS OF CABLE TO JUNCTION BOX SHOULD BE MADE SO THAT THE TOTAL LENGTH OF CABLES PER STRING IS EQUAL. THIS WILL MINIMIZE VARIATIONS OF RESISTANCE IN EACH STRING. HENCE EQUALLY DISTRIBUTE LOAD CURRENTS.

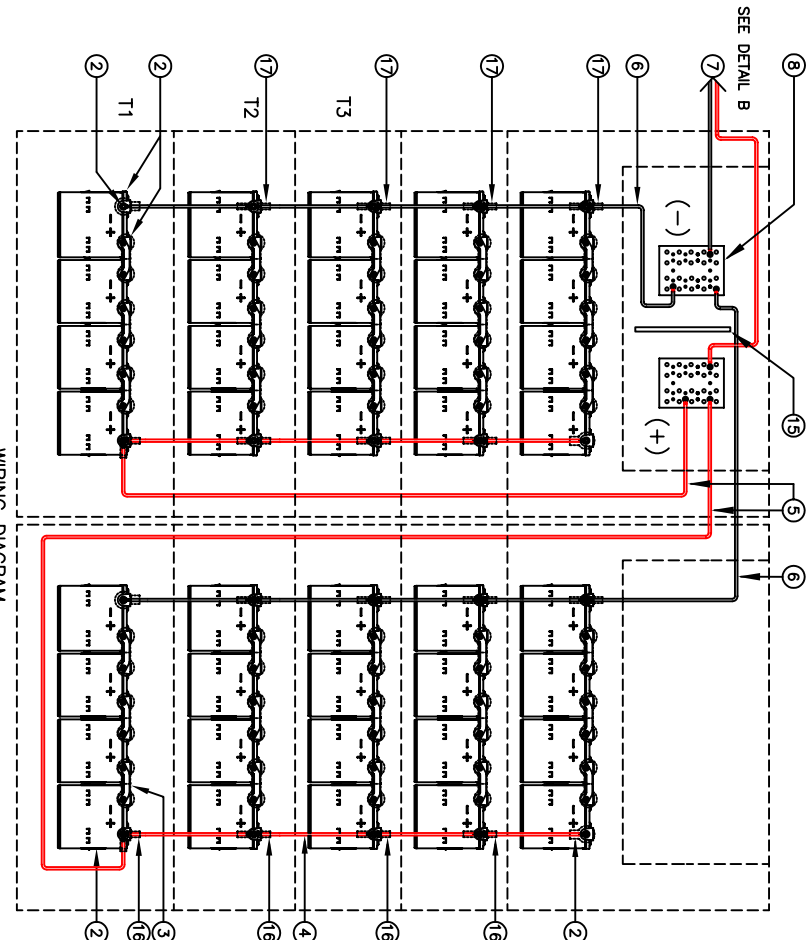
NOTE:  
 \* ALTERNATE METHOD MAY BE USED TO CONNECT TWO SYSTEMS ACCORDING TO CUSTOMER SPECIFICATIONS.



DETAIL A  
 TERMINAL CONNECTORS

ITEM NO.	DESCRIPTION	QTY
1	TERMINAL CONNECTOR	2
2	TERMINAL CONNECTOR	2
3	TERMINAL CONNECTOR	2
4	TERMINAL CONNECTOR	2
5	TERMINAL CONNECTOR	2
6	TERMINAL CONNECTOR	2
7	TERMINAL CONNECTOR	2
8	TERMINAL CONNECTOR	2
9	TERMINAL CONNECTOR	2
10	TERMINAL CONNECTOR	2
11	TERMINAL CONNECTOR	2
12	TERMINAL CONNECTOR	2
13	TERMINAL CONNECTOR	2
14	TERMINAL CONNECTOR	2

\* USE (2) 1/4" NUTS WITH CABLES PER STRING USED TO SECURE CABLES TO TERMINAL CONNECTORS. THE NUTS SHALL BE USED IN EACH CONNECTION. SEE BATTERY LABEL FOR TORQUE VALUES.  
 NOTE: ALL CONNECTIONS MUST BE RETORQUED ANNUALLY TO 115 N.-FT.



**IMPORTANT NOTES**  
 THE CUSTOMER AND/OR CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING THIS EQUIPMENT IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS.  
 WHEN HANDLING, KEEP UPRIGHT WITHIN +/- 15 DEGREES.  
 PLEASE REFER TO 2008 NEC SECTION 480-9 FOR THE REQUIREMENTS ON WORKING SPACES.

**IMPORTANT NOTE**  
 ALL CONNECTIONS TO BE RETORQUED ANNUALLY. ALL CONNECTIONS MUST BE CHECKED FOR PROPER TORQUE PRIOR TO START UP OR REWIRING OF SYSTEM.

NOTE: CABLES SIZED TO RESTRICT A VOLTAGE DROP OVER 2%

NO.	DESCRIPTION	QTY	UNIT
1	BATTERY BULK INSULATION	30	AG-20114
2	TERMINAL BOOT (46899714) BLACK	8	AG-20113
3	TERMINAL BOOT (4689972) RED	8	AG-20113
4	TERMINAL BOOT (4689973) BLUE	8	AG-20113
5	TERMINAL BOOT (4689974) GREEN	8	AG-20113
6	TERMINAL BOOT (4689975) WHITE	8	AG-20113
7	5/16-18 UNC HEX NUT	6	HM-0007
8	5/16-18 UNC WASHER	6	HM-0006
9	5/16-18 UNC X 2 TUBULAR THREADED STUD	6	HM-0005
10	5/16-18 UNC X 2 TUBULAR THREADED STUD	6	HM-0005
11	5/16-18 UNC X 2 TUBULAR THREADED STUD	6	HM-0005
12	5/16-18 UNC X 2 TUBULAR THREADED STUD	6	HM-0005
13	5/16-18 UNC X 2 TUBULAR THREADED STUD	6	HM-0005
14	5/16-18 UNC X 2 TUBULAR THREADED STUD	6	HM-0005
15	5/16-18 UNC X 2 TUBULAR THREADED STUD	6	HM-0005
16	5/16-18 UNC X 2 TUBULAR THREADED STUD	6	HM-0005
17	5/16-18 UNC X 2 TUBULAR THREADED STUD	6	HM-0005
18	5/16-18 UNC X 2 TUBULAR THREADED STUD	6	HM-0005
19	5/16-18 UNC X 2 TUBULAR THREADED STUD	6	HM-0005
20	5/16-18 UNC X 2 TUBULAR THREADED STUD	6	HM-0005
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98	5/16-18 UNC X 2 TUBULAR THREADED STUD	6	HM-0005
99	5/16-18 UNC X 2 TUBULAR THREADED STUD	6	HM-0005
100	5/16-18 UNC X 2 TUBULAR THREADED STUD	6	HM-0005

DATE: 09/24/09  
 DRAWN BY: Kimberly  
 CHECKED BY: Kimberly  
 APPROVED BY: Kimberly  
**POWER**  
 BATTERY SYSTEM LAYOUT FOR  
 WITH (40) 12 V. BATTERIES  
 CZS-482550