SYSTEM SPECIFICATIONS

SYSTEM MODEL NO. CZS-482040
SYSTEM RATING: 200 AMPS FOR 8 HOURS TO 1.75 VPC.
RECOMMENDED SYSTEM FLOAT VOLTAGE: 54.48 MIN. 55.2 MAX.
SYSTEM CUTOFF VOLTAGE: 42
FULL LOAD CURRENT: 200 ADC
FULL LOAD CURRENT PER SERIES CIRCUIT: 25 ADC
OPEN CIRCUIT VOLTAGE: 49.6 – 51.6 VDC

NOTE: SYSTEM IS SIZED 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.

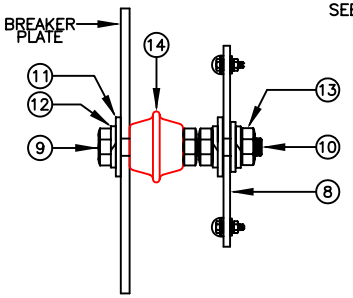
ANY DEVIATION FROM THIS CONFIGURATION REQUIRES THE CUTOMER TO SIZE INTERCABINET CABLES RECOMMENDED BY N.E.C. TABLE 310-16 USING 75°C IN 30°C AMBIENT.

(2) SEE BATTERY LABEL FOR TORQUE VALUES

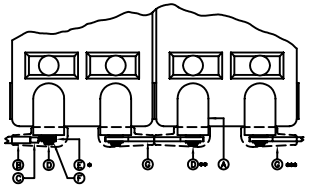
(3) USE INSULATED TOOLS FOR CABINET INSTALLATION. DO NOT ALLOW TOOLS OR CABLES TO REST ON BATTERIES.

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.



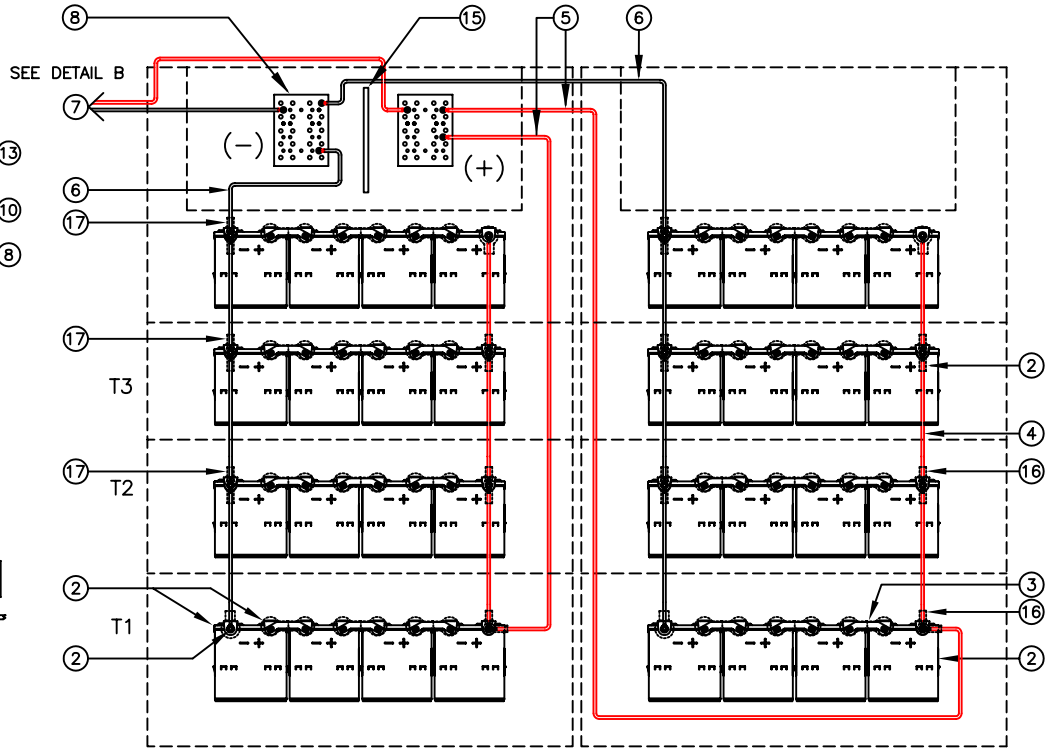
DETAIL B
BUSBAR ASSEMBLY



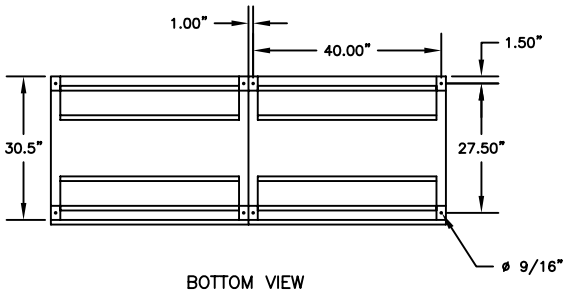
DETAIL A
TERMINAL CONNECTION

ITEM	DESCRIPTION
H	BUS BAR COVER
G	BUS BAR
F	SPRING LOCK WASHER
E	WASHER
D	BOLT
C	CABLE LUG
B	CABLE
A	BATTERY TERMINAL

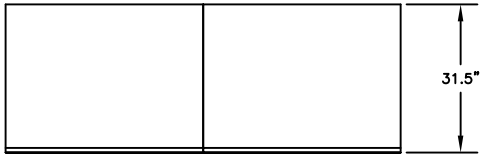
* USE (2) FLAT WASHER WHEN CABLES ARE BEING USED
** USE (1) FLAT WASHER WHEN A BUS BAR IS BEING USED
*** BUS BAR COVER SHALL BE USE IN EACH CONNECTION
NOTE: ALL CONNECTIONS MUST BE RETORQUED ANNUALLY TO 115 IN-LBS.



WIRING DIAGRAM



BOTTOM VIEW



TOP VIEW

IMPORTANT NOTES

THE CUSTOMER AND/OR CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING THIS EQUIPMENT IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS

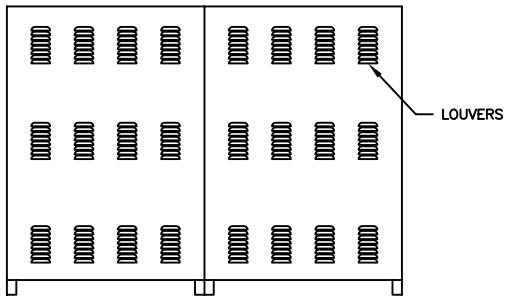
WHEN HANDLING, KEEP UPRIGHT WITHIN +/- 15 DEGREES.

PLEASE REFER TO 2008 NEC SECTION 480-9 FOR THE REQUIREMENTS ON WORKING SPACES.

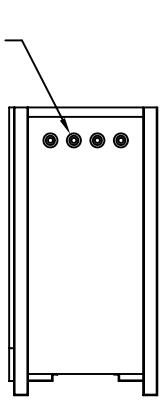
IMPORTANT NOTE

ALL CONNECTIONS TO BE RETORQUED ANNUALLY

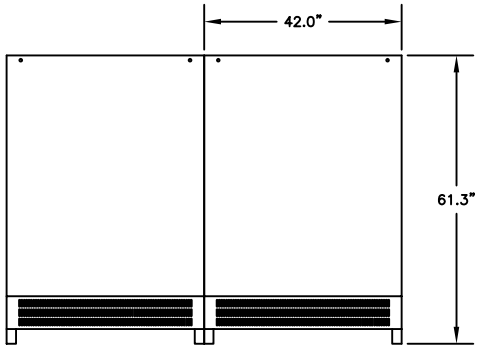
ALL CONNECTIONS MUST BE CHECKED FOR PROPER TORQUE PRIOR TO START UP OR ENERGIZING OF SYSTEM.



BACK VIEW



SIDE VIEW



FRONT VIEW

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

NO.	DESCRIPTION	QTY.	PART NO.
18	BATTERY RAIL INSULATION	24	
17	TERMINAL BOOTS (466N9V14) BLACK	6	AC-0014
16	TERMINAL BOOTS (466N9V02) RED	6	AC-0013
15	PLEXI BUSBAR SEPERATOR	1	VX4-0001
14	5/16-18 STANDOFF	2	CC-0002
13	5/16-18 UNC HEX NUT	6	HW-0007
12	5/16 LOCK WASHER	6	HW-0006
11	5/16 FLAT WASHER	6	HW-0005
10	5/16-18 UNC x 2" FULLY THREADED STUD	2	HW-0009
9	5/16-18 UNC x 5/8" HEX HEAD SCREW	2	HW-0008
8	BUSBAR (1200A)	2	SC-0001
7	CABLE 250 MCM MINIMUM	2	SUPPLIED BY CUSTOMER
6	CABLE 250 MCM 65" LG.	2	250-65BE
5	CABLE 250 MCM 115" LG.	2	250-115BE
4	CABLE 250 MCM 24" LG.	12	250-24B
3	BUSBAR (THICK)	24	CC-0179
2	BATTERY/BOOTS/HARDWARE	32	PSG-12255
1	CABINET	2	CZ6

SERIAL#MASTER
REVISIONS

NO.	DATE	BY
1		
2		
3		
4		
5		

DATE 08/24/09
SCALE
DRAWN BY Kimberly
NOT VALID UNLESS APPROVED

POWER BATTERY COMPANY INC.

BATTERY SYSTEM LAYOUT FOR (2) CZ6 CABINET (48 V.) WITH (32) 12 V. BATTERIES

DRAWING NO. CZS-482040