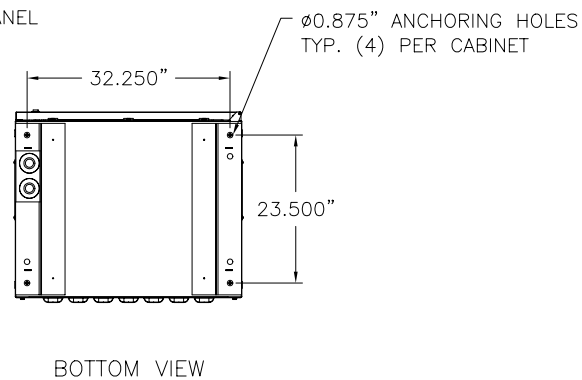
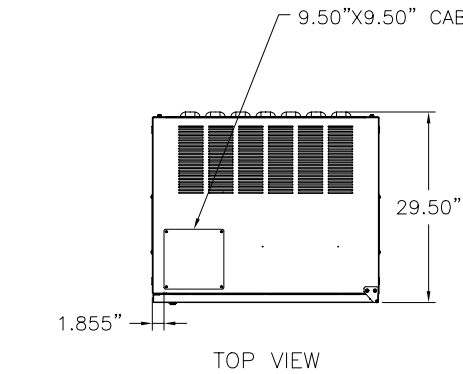
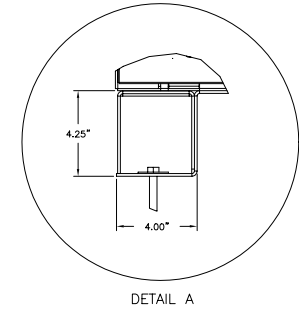
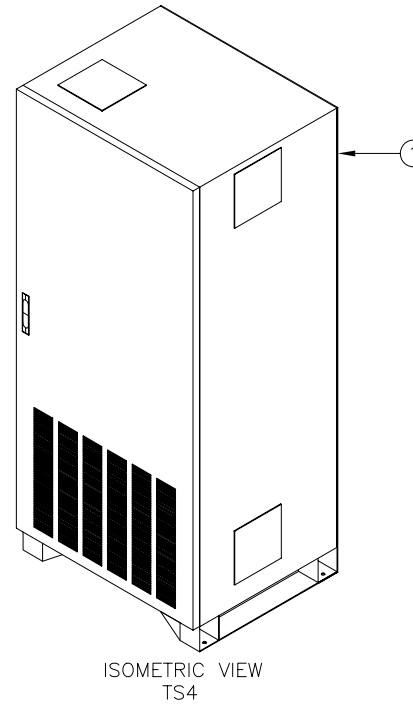
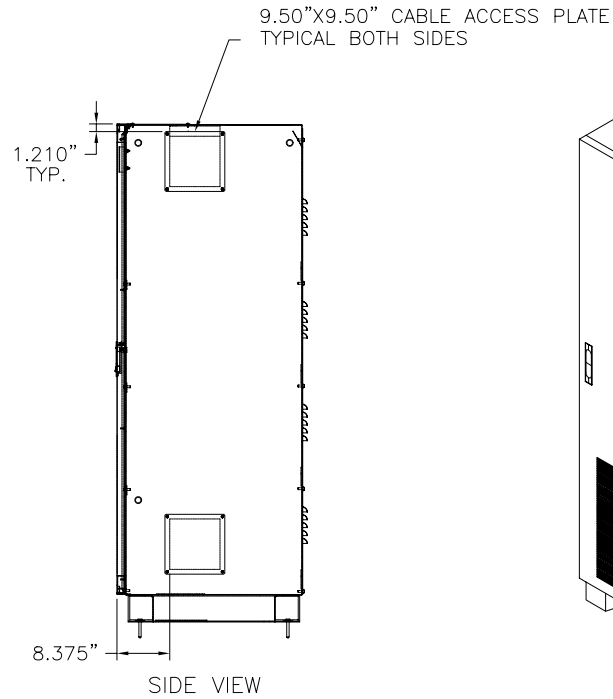
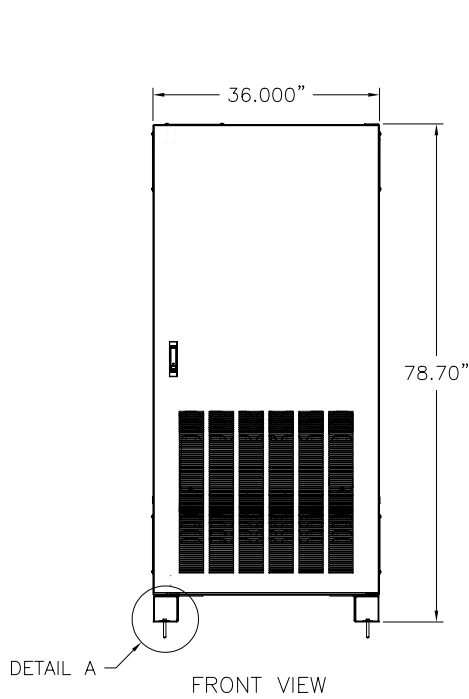


MAXIMUM NUMBER OF BATTERIES PER CABINET										
CABINET TYPE	PRC & TC 12 VOLT						PRC & TC 6 VOLT		TC 2 VOLT	
	1225X	1230X-35X	1245X-50XL	1265-80X-90X	12100X	12110X-120X	12150X	6165X-200X-225X	2450X-550X-600X	
TS4	30	30	30	30	30	30	30	30	30	30

OVERALL CABINET DIMENSIONS				
CABINET TYPE	Lbs\Kg WEIGHT	In\mm		
		W	D	H
TS4	525 238	36" 914	29.5" 749.3	78.70" 1999



PHYSICAL SPECIFICATIONS:

MATERIALS:

- SHEET STEEL: HOT ROLLED PICKLED AND OILED MIN. YIELD STRENGTH=57KSI.
- HARDWARE: SAE J429-Gr2 (ASTM A-307 EQUIVALENT).
- AWS E-70XX WELDING ELECTRODES.
- NEOPRENE BATTERY RAIL INSULATION.

STRUCTURE:

- FRONT AND BACK DOORS: 16 GA.
- TOP AND SIDES: 12 GA.
- CABINET BASE: 7 GA.
- INTERIOR RAILS: 12 GA.

FINISH:

- ELECTROSTATIC POWDER COATED BEIGE


NOTE:

THIS DRAWING IS SUBJECT TO CHANGE AND SHOULD NOT BE USED FOR CONSTRUCTION.

NOTE:

A MINIMUM OF 6" OF SPACE IS NEEDED AROUND EACH SIDE OF CABINET IN ORDER TO MEET UBC 97 SEISMIC CRITERIA.

1	TS4 CABINET			
NO.	DESCRIPTION:			
REVISIONS		DATE:	03/02/05	
NO.	DATE	BY	SCALE:	
A			NONE	
B			DRAWN BY:	
C			ANT M.	
D			NOT VALID UNLESS APPROVED BY:	
E			DRAWING NO.:	
F			TS4-PSPEC	



POWER
POWER BATTERY COMPANY INC.

TS4 BATTERY
CABINET PHYSICAL
SPECIFICATIONS

SYSTEM SPECIFICATIONS

SYSTEMS RATING: 100-300 KVA MATCHING CABINET SOLUTIONS
 RECOMMENDED SYSTEM FLOAT VOLTAGE: 405 MIN. 414 MAX.
 SYSTEM CUTOFF VOLTAGE: 306
 FULL LOAD CURRENT: **** AMPS
 FULL LOAD CURRENT PER SERIES CIRCUIT: **** AMPS
 OPEN CIRCUIT VOLTAGE: 372 - 387 VDC

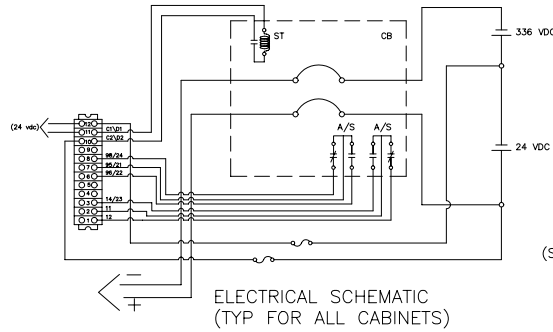
INSTALLATION AND MAINTENANCE

CAUTION: REFER TO INSTALLATION INSTRUCTIONS (IIS-1) PRIOR TO INSTALLING CABINET.

- 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.
- 2 INTERNAL BREAKER/FUSE IS FOR OVERCURRENT PROTECTION ONLY.
- 3 BREAKER LUG MOUNTING TORQUE VALUE: ** IN-LBS
 BREAKER WIRE LUG TORQUE VALUE: ** IN-LBS
 FUSE LUG MOUNTING TORQUE VALUE: N/A
- 4 USE INSULATED TOOLS FOR CABINET INSTALLATION. DO NOT ALLOW TOOLS OR CABLES TO REST ON BATTERIES.

IMPORTANT NOTE

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



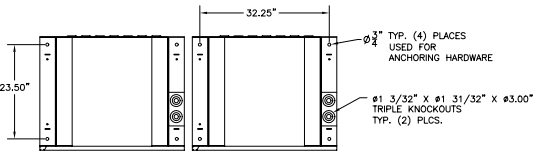
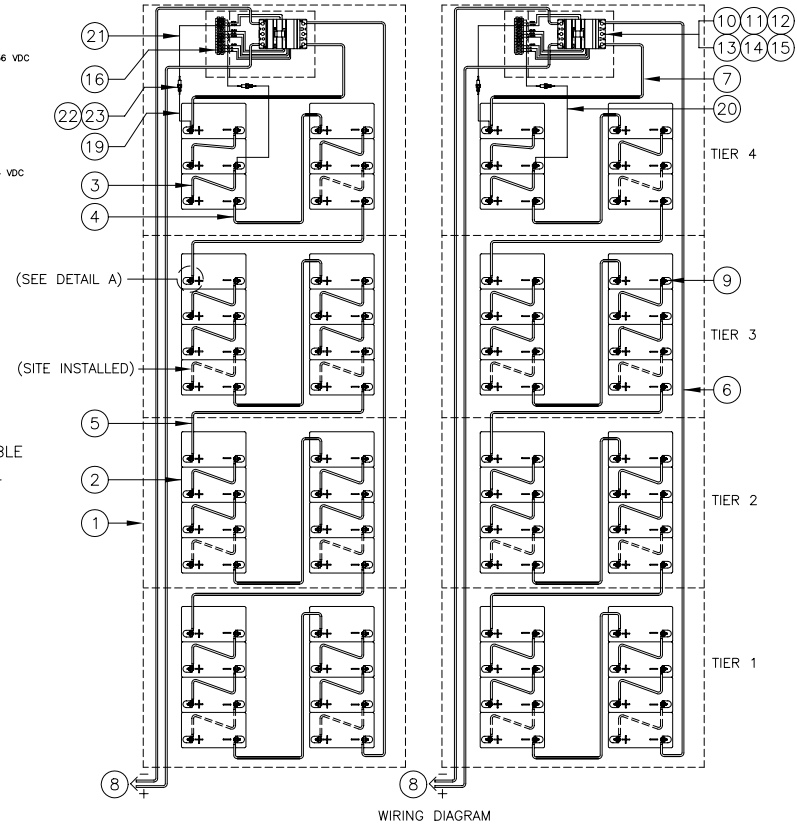
IMPORTANT NOTE

***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.

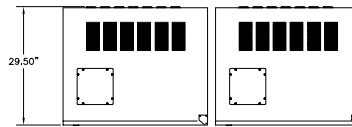
QTY	KVA	BREAKER	MAXIMUM BREAKER SIZE & QUANTITY FOR (1) TS4
1	100	H300	300 AMP BREAKER WITH AUXILIARY CONTACTS & 24 SHUNT TRIP
1	150	H600	600 AMP BREAKER WITH AUXILIARY CONTACTS & 24 SHUNT TRIP
1	225	H400	400 AMP BREAKER WITH AUXILIARY CONTACTS & 24 SHUNT TRIP
1	300	H600	600 AMP BREAKER WITH AUXILIARY CONTACTS & 24 SHUNT TRIP

*** NOTE: BREAKER LUGS SIZED TO HANDLE LISTED CABLE RANGES FOR HIGHEST AMPERAGE BREAKER USED FOR KVA'S LISTED BELOW

100 & 225 KVA = CABLE 250MCM MINIMUM
 CABLE 500MCM MAXIMUM (1 HOLE PER POLE)
 150 & 300 KVA = CABLE 2/0 MINIMUM
 CABLE 400MCM MAXIMUM (3 HOLES PER POLE)

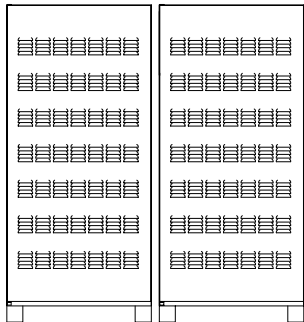


BOTTOM VIEW



TOP VIEW TOP VIEW

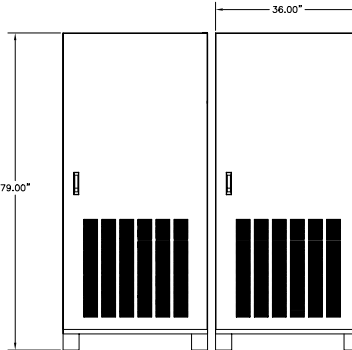
BATTERY CHART		
BATTERY TYPE	QTY	CABINET TYPE
PRC/TC-1290	60	2 TS4
PRC/TC-12100	60	2 TS4
PRC/TC-12120	60	2 TS4
PRC/TC-12150	60	2 TS4



BACK VIEW



SIDE VIEW



FRONT VIEW

23	FUSE	300 VDC 5 AMPS (ATDR5)	4	FS-0177
22	FUSE HOLDER	(30322R)	2	FS-0176
21	CABLE	10 GA. 10" LG.	4	10-10BN
20	CABLE	10 GA. 20" LG.	2	10-20BN
19	CABLE	10 GA. 15" LG.	2	10-15BN
18	BATTERY RAIL INSULATION		32	
17	TERMINAL BLOCK	(671RZ212)	2	TB-0078
16	CABLE LUG KIT	(K4TD-2)	2	CB-0196
15	SHUNT TRIP CONNECTORS	(K6C-SU)	2	CB-0194
14	SHUNT TRIP 24 VOLTS	(K5S8)	2	CB-0197
13	AUXILIARY CONNECTORS	(K6C-AB)	2	CB-0195
12	AUXILIARY SWITCH	(K5AS)	2	CB-0193
11	CIRCUIT BREAKER		2	SEE CHART
10	BREAKER MOUNTING PLATE		2	MC3-0003
9	BATTERY HARDWARE KIT		60	AS PER BATTERY
8	SEE NOTE		4	SUPPLIED BY CUSTOMER
7	CABLE	* GA. 50" LG.	2	*-50BE
6	CABLE	* GA. 85" LG.	2	*-85BE
5	CABLE	* GA. 70" LG.	6	*-70B
4	CABLE	* GA. 30" LG.	8	*-30B
3	CABLE	* GA. 1*" LG.	44	*-1*B
2	BATTERY		60	SEE CHART
1	CABINET		2	TS4
NO.	DESCRIPTION		QTY.	PART NO.

SERIAL# G8000		DATE: 03/02/05	
REVISIONS		DRAWN BY: Luis	
NO.	DATE	BY	SCALE
1			
2			
3			
4			
5			

NOT VALID UNLESS APPROVED.

POWER
 POWER BATTERY COMPANY INC.
 BATTERY SYSTEM LAYOUT FOR
 (2) TS4 CABINET (360 V.) WITH
 (60) 12 V. BATTERIES & BREAKER
 DRAWING NO.:
 TOSHIBA G8000 (2-STRING)