

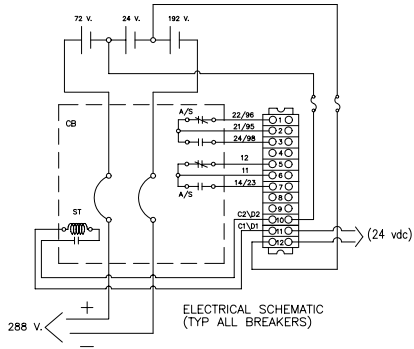
# SYSTEM SPECIFICATIONS

SYSTEMS RATING: 15-80 KVA MATCHING CABINET SOLUTIONS  
 RECOMMENDED SYSTEM FLOAT VOLTAGE: 324 MIN. 331.2 MAX.  
 SYSTEM CUTOFF VOLTAGE: 240.48  
 FULL LOAD CURRENT: \*\*\*\* AMPS  
 FULL LOAD CURRENT PER SERIES CIRCUIT: \*\*\*\* AMPS  
 OPEN CIRCUIT VOLTAGE: 297.6 - 309.6 VDC

# INSTALLATION AND MAINTENANCE

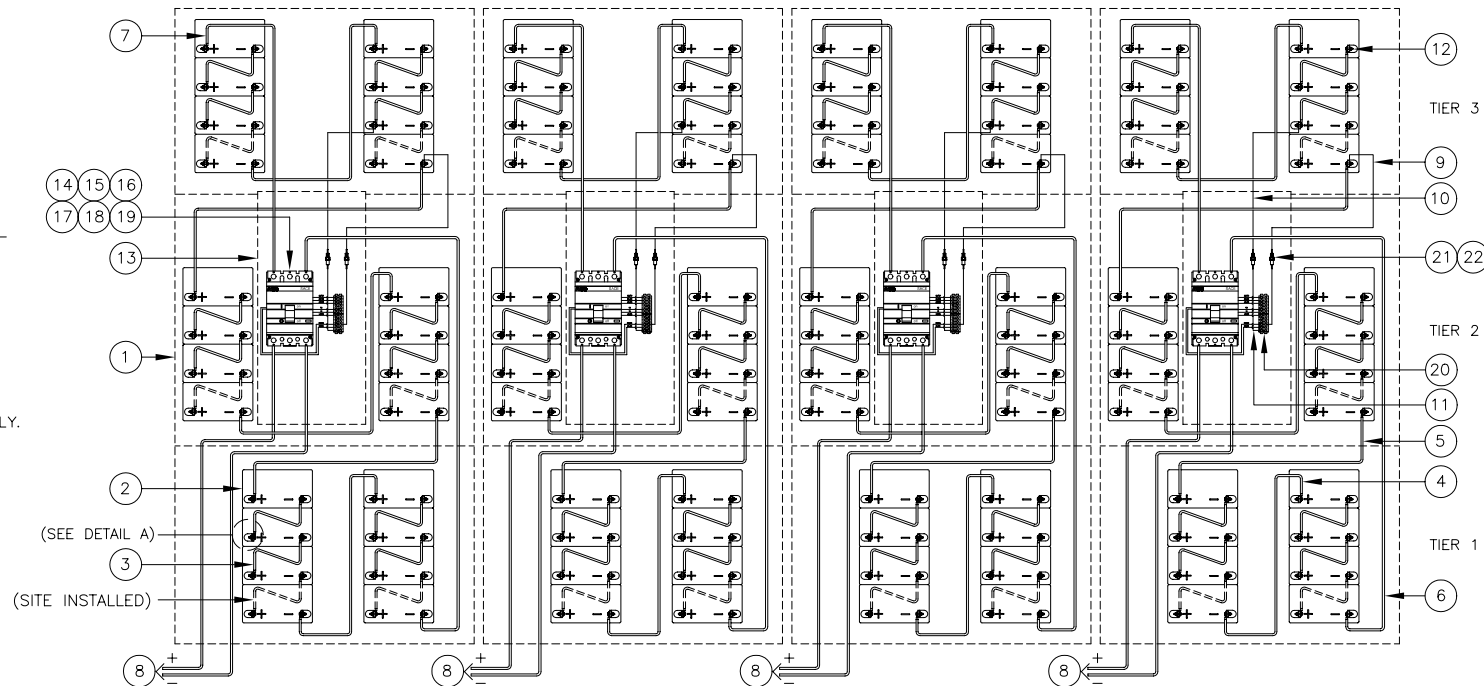
**CAUTION: REFER TO INSTALLATION INSTRUCTIONS (IIS-1) PRIOR TO INSTALLING CABINET.**

- ALL RECOMMENDED CUSTOMER'S CABLE GAUGES ARE BASED ON TABLE 310-16 OF N.E.C. USING 75°C CABLE IN 30°C AMBIENT.
- INTERNAL BREAKER/FUSE IS FOR OVERCURRENT PROTECTION ONLY.
- BREAKER LUG MOUNTING TORQUE VALUE: 150 IN-LBS  
 BREAKER WIRE LUG TORQUE VALUE: 275 IN-LBS  
 FUSE LUG MOUNTING TORQUE VALUE: N/A
- USE INSULATED TOOLS FOR CABINET INSTALLATION. DO NOT ALLOW TOOLS OR CABLES TO REST ON BATTERIES.



**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.

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

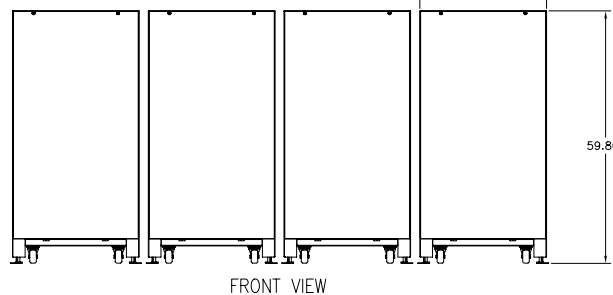
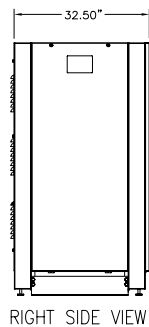
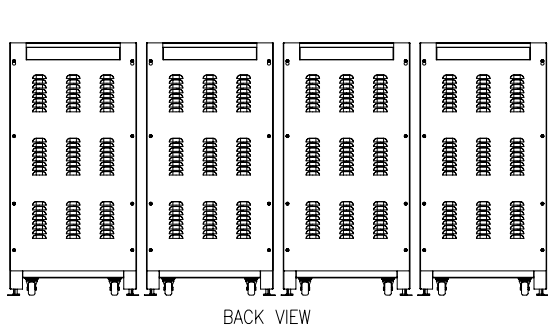
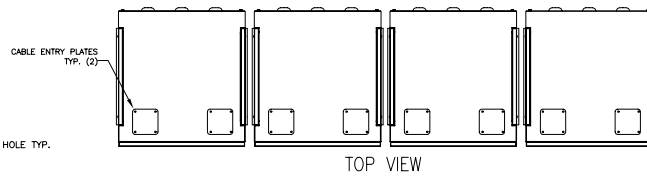
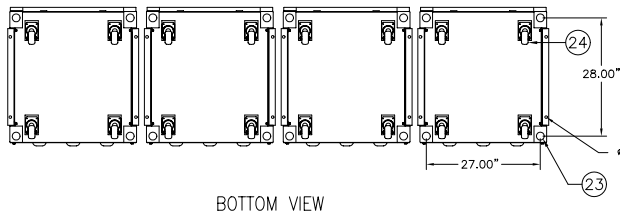


BATTERY CHART		
BATTERY TYPE	QTY	CABINET TYPE
PRC/TC-12120	96	4 TS3
PRC/TC-12150	96	4 TS3

QTY	KVA	BREAKER	MAXIMUM BREAKER SIZE & QUANTITY FOR (1) TS3
1	15	H60	60 AMP BREAKER WITH AUXILIARY CONTACTS & 24 SHUNT TRIP
1	25	H100	100 AMP BREAKER WITH AUXILIARY CONTACTS & 24 SHUNT TRIP
1	30	H125	125 AMP BREAKER WITH AUXILIARY CONTACTS & 24 SHUNT TRIP
1	50	H225	225 AMP BREAKER WITH AUXILIARY CONTACTS & 24 SHUNT TRIP
1	80	H300	300 AMP BREAKER WITH AUXILIARY CONTACTS & 24 SHUNT TRIP

\*\*\*NOTE: BREAKER LUGS SIZED TO HANDLE LISTED CABLE RANGES

- 15-25 KVA = CABLE 8 GA. MINIMUM  
 CABLE 1/0 GA. MAXIMUM (1 HOLE PER POLE)
- 30-50 KVA = CABLE 4 GA. MINIMUM  
 CABLE 300 MCM MAXIMUM (1 HOLE PER POLE)
- 80 KVA = CABLE 250 MCM MINIMUM  
 CABLE 350 MCM MAXIMUM (2 HOLES PER POLE)



25	BATTERY RAIL INSULATION	48	
24	SWIVEL CASTER (25285)	16	CC-0024
23	LEVELING SCREWS (6111K21)	16	HW-0287
22	FUSE 300 VDC 5 AMPS (ATDR5)	8	FS-0177
21	FUSE HOLDER (30322R)	4	FS-0176
20	TERMINAL BLOCK (671RZ212)	4	TB-0078
19	CABLE LUG KIT (K4TD-2)	4	CB-0196
18	SHUNT TRIP CONNECTORS (K6C-SU)	4	CB-0194
17	SHUNT TRIP 24 VOLTS (K5S8)	4	CB-0197
16	AUXILIARY CONNECTORS (K6C-AB)	4	CB-0195
15	AUXILIARY SWITCH (K5AS)	4	CB-0193
14	CIRCUIT BREAKER	4	SEE CHART
13	BREAKER MOUNTING PLATE	4	MC3-0003
12	BATTERY HARDWARE KIT	96	AS PER BATTERY
11	CABLE 10 GA. 10" LG.	8	10-10BN
10	CABLE 10 GA. 20" LG.	4	10-20BN
9	CABLE 10 GA. 15" LG.	4	10-15BN
8	SEE NOTE	8	SUPPLIED BY CUSTOMER
7	CABLE * GA. 50" LG.	4	*-50BE
6	CABLE * GA. 55" LG.	4	*-55BE
5	CABLE * GA. 70" LG.	8	*-70B
4	CABLE * GA. 25" LG.	12	*-25B
3	CABLE * GA. 14" LG.	72	*-14B
2	BATTERY	96	SEE CHART
1	CABINET	4	TS3

NO. DESCRIPTION QTY. PART NO.

SERIAL #42 DATE: 03/02/05

REVISIONS

NO.	DATE	BY	SCALE
1			
2			
3			
4			
5			

DRAWN BY: Luis

NOT VALID UNLESS APPROVED:

**POWER**  
 POWER BATTERY COMPANY INC.  
 BATTERY SYSTEM LAYOUT FOR  
 (4) TS3 CABINET (288 V.) WITH  
 (96) 12 V. BATTERIES & BREAKER  
 DRAWING NO.: TOSHIBA T42(4-STRING)