

TOSHIBA

Toshiba International Corporation Remote Status Alarm Panel Installation, Operation, & Maintenance Manual



This manual contains proprietary and confidential information of C&C Power, Inc., and has been prepared for the use of Toshiba International Corporation, for use in conjunction with equipment provided by C&C Power, Inc. Unauthorized reproduction, in whole or in part, without written permission of C&C Power, Inc., is prohibited.

Copyright © 2013 C&C Power, Inc.
All rights reserved.

C&C Power, Inc.

395 Mission St.
Carol Stream, IL 60188

www.ccpower.com

Technical Support:

Phone: (630) 617-9022
Email: support@ccpower.com

TABLE OF CONTENTS

1. Physical Characteristics	6
2. Installation Instructions	7
3. Operating Instructions	8
4. Front Panel LED Functions	9
5. Reference Materials.....	10
6. Warranty.....	16

1. PHYSICAL CHARACTERISTICS

Weight: 10 lbs (4.5 Kgs)

Height: 8 1/4 inches (210 mm)

Width: 8 5/16 inches (211 mm)

Depth: 4 5/16 inches (110 mm)

2. INSTALLATION INSTRUCTIONS

1. Locate the area where the Remote Status Alarm Panel (RSAP) will be installed. The monitor should be within 1,500 feet (500 meters) of the UPS.
2. Mount the monitor to the wall using the four pre-drilled holes in the back. Use appropriate hardware for the installation.
3. Wiring requirements are: 7 twisted pair 16 AWG cable run in metal conduit. Use Belden Catalog No. 1485 (8 twisted pair) or equivalent. All electrical and mechanical connections to be made per local and/or national electric codes.
4. Connect the conduit to the RSAP by drilling the appropriately sized hole in a convenient location. ***Caution!*** Care should be taken not to damage any internal components when drilling the hole for the conduit.
5. Referring to Figure 2.0, 3.0, and the corresponding UPS wiring diagram, connect the seven (7) pairs of twisted wire from the RSAP to the customer accessible alarm contact terminal bar in the UPS module. (Refer to the UPS' owner's manual for location)
6. Referring to Figure 3.0, install 6 AA batteries (included). Batteries will provide about 8 hours of power in the event of a power failure. Replace yearly for optimum performance.
7. Referring to Figure 3.0, connect the power supply adapter into the corresponding jack located on the bottom left-hand side of the RSAP enclosure. Plug the power supply into a convenient 120V/60Hz wall receptacle. Failure to connect to a suitable wall outlet will drain the RSAP's internal batteries and/or result in damage to the monitor. (If supplied with the hardwire version, please refer to Figure 3.1 for AC input terminal block layout. Connect L1, Neutral, and Ground with minimum of 18awg wire.)

Caution: The monitor must be installed by a qualified electrician. The Installation is to be inspected by an Authorized UPS Service Engineer at time of UPS startup.

3. OPERATING INSTRUCTIONS

Refer to Figure 1.0 for the location of the LED's and pushbuttons described below:

ALARM SILENCE: pushbutton is used to silence the audible alarm.

MONITOR RESET: pushbutton is used to reset the RSAP's UPS FAULT alarm. The monitor will alarm again if the alarm condition is still present following a RESET.

MONITOR TEST: pushbutton is used to check the operation of all LED's and the audible alarm. All LEDs that are illuminated will go off and all LEDs that are off will illuminate. Audible will also sound.

INTERNAL MONITOR BATTERY TEST: pushbutton is used to test the condition of the monitor's battery pack. Replace the batteries if the yellow LED does not illuminate.

4. FRONT PANEL LED FUNCTIONS

1. **Rectifier / Charger LED.** This green LED is illuminated as long as the Rectifier Charger is operating in the UPS.
2. **Battery LED.** This yellow LED is illuminated as long as the UPS is on Battery. Audible alarm will beep intermittently.
3. **Inverter On LED.** The green LED is illuminated as long as the inverter is operating in the UPS.
4. **Output LED.** This green LED is illuminated as long as there is power to the critical load. (either by the Inverter or Bypass)
5. **Load On Bypass LED.** This yellow LED is illuminated as long as the critical load is powered by the Bypass.
6. **AC Input LED.** This green LED is illuminated as long as there is AC power supplied to the system.
7. **UPS Fault.** This Red LED is illuminated and the audible alarm sounds when a UPS fault has occurred. After the fault has cleared, the monitor must be reset.
8. **Overload LED.** This red LED is illuminated when a UPS overload has occurred. This alarm is activated and the audible alarm sounds.
9. **Input Failure LED.** This red LED is illuminated when there is an Input power outage. The audible alarm will also sound.
10. **Battery Low Voltage.** This red LED is illuminated as soon as the DC bus voltage approaches its cutoff voltage. Alarm will sound.
11. **Alarm Silence LED.** It will stay illuminated as long as the alarm silence button has been pressed and alarm condition is still present. If alarm condition clears, the alarm silence will automatically reset.
12. **Internal Monitor Battery OK LED.** This yellow LED will illuminate when it's corresponding push button is pressed and the batteries are OK. If this light is dim or does not light replace all internal batteries.

Note: When all contacts from the UPS are open, the Input Failure LED will be on.

5. REFERENCE MATERIALS

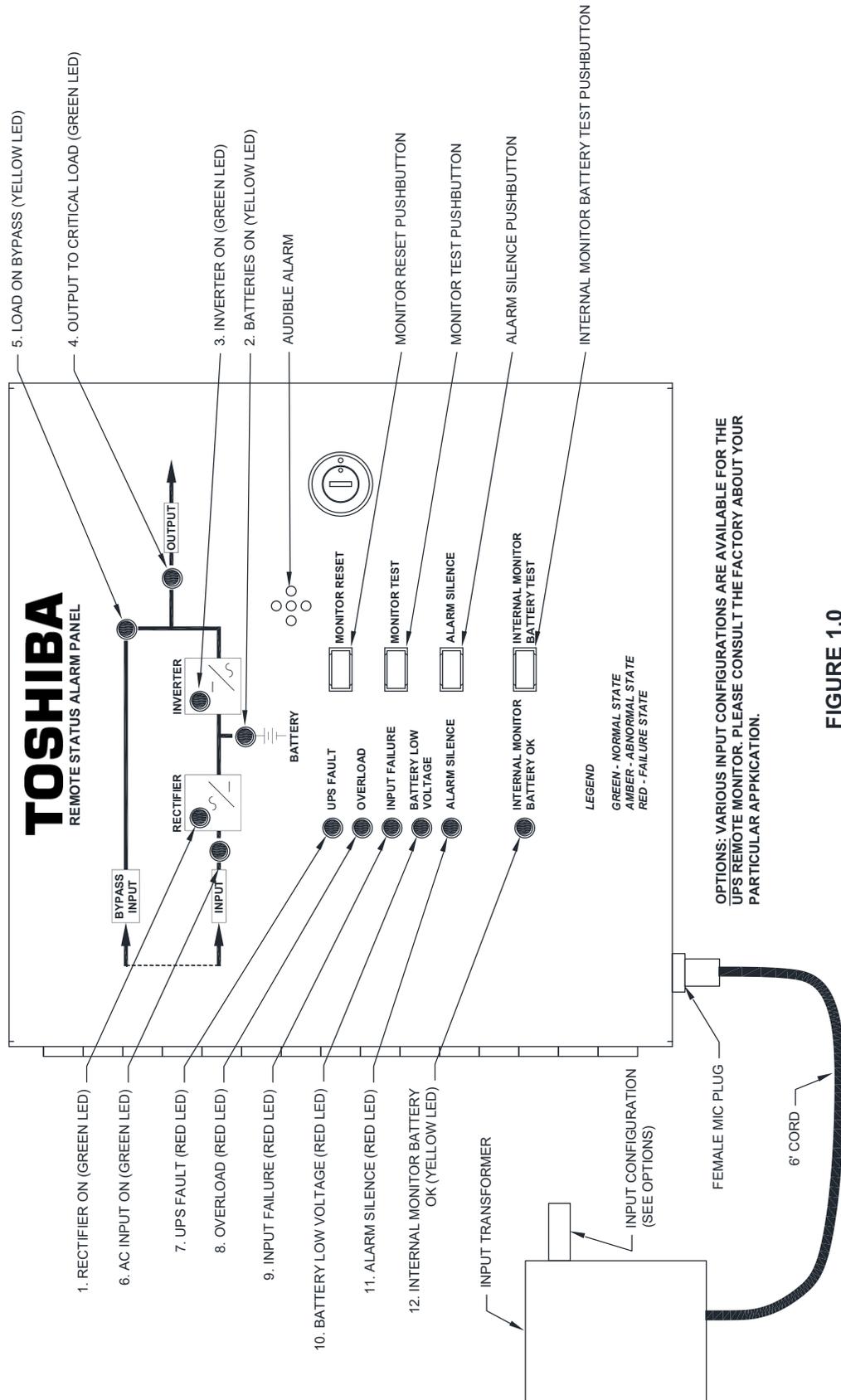


FIGURE 1.0

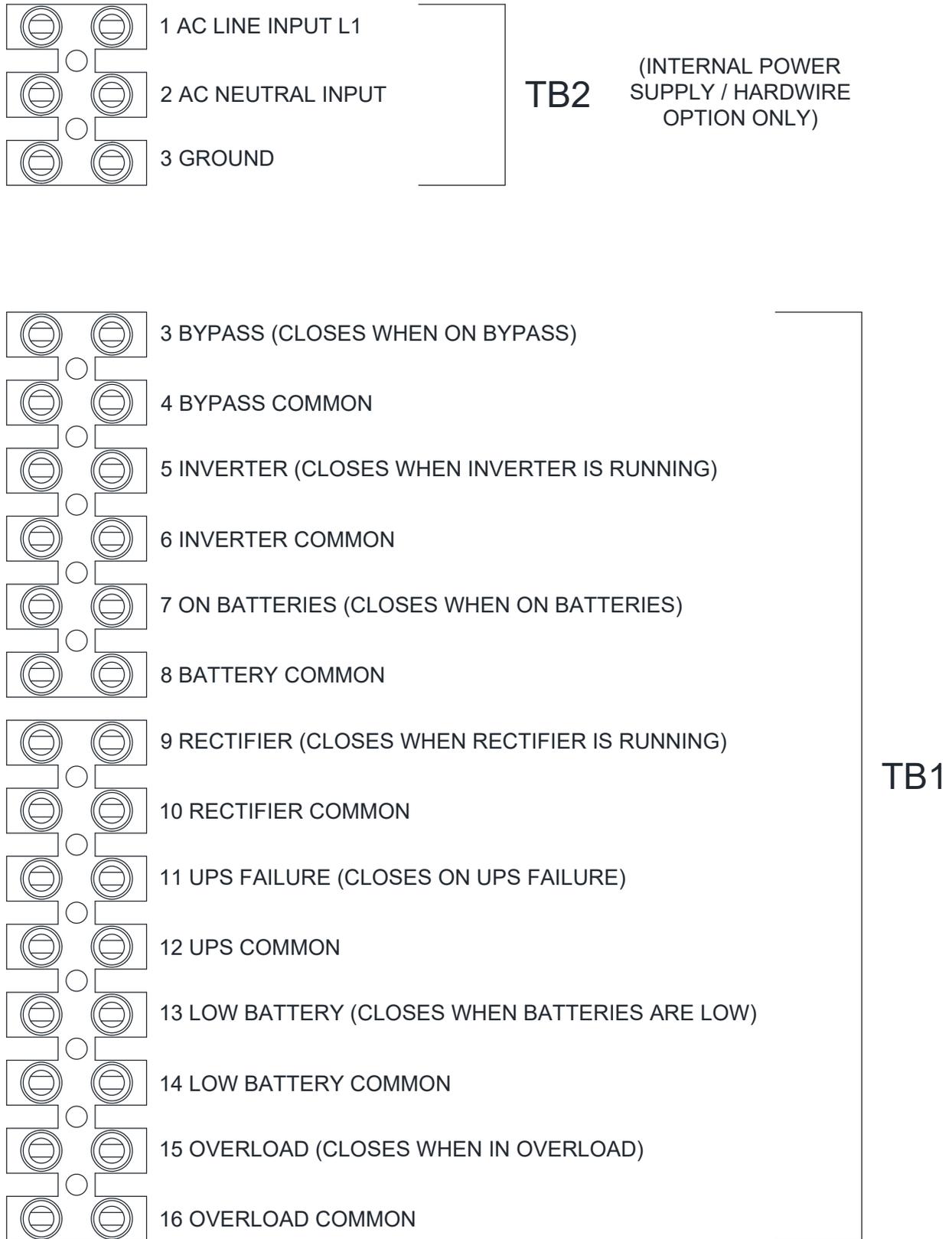


FIGURE 2.0

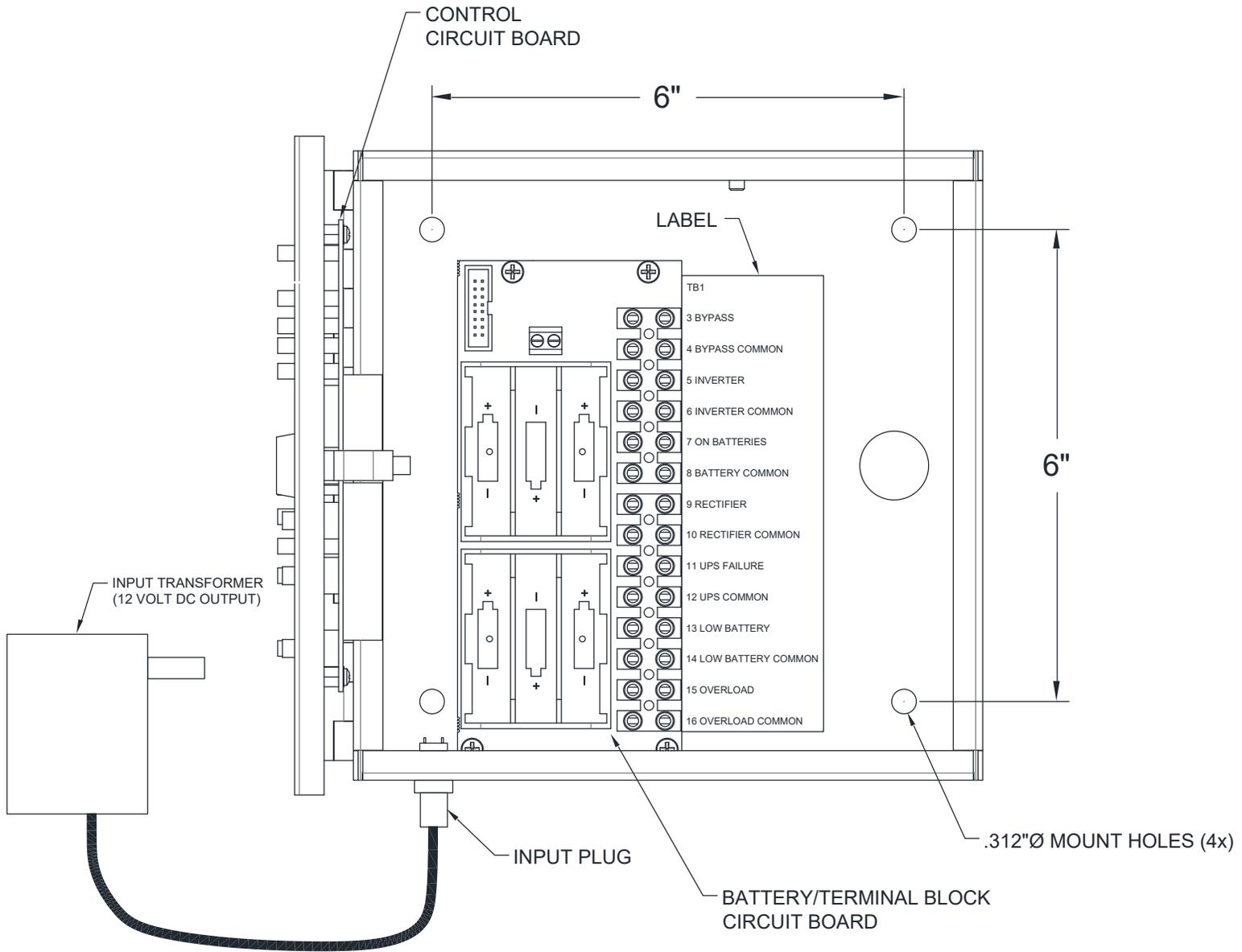


FIGURE 3.0

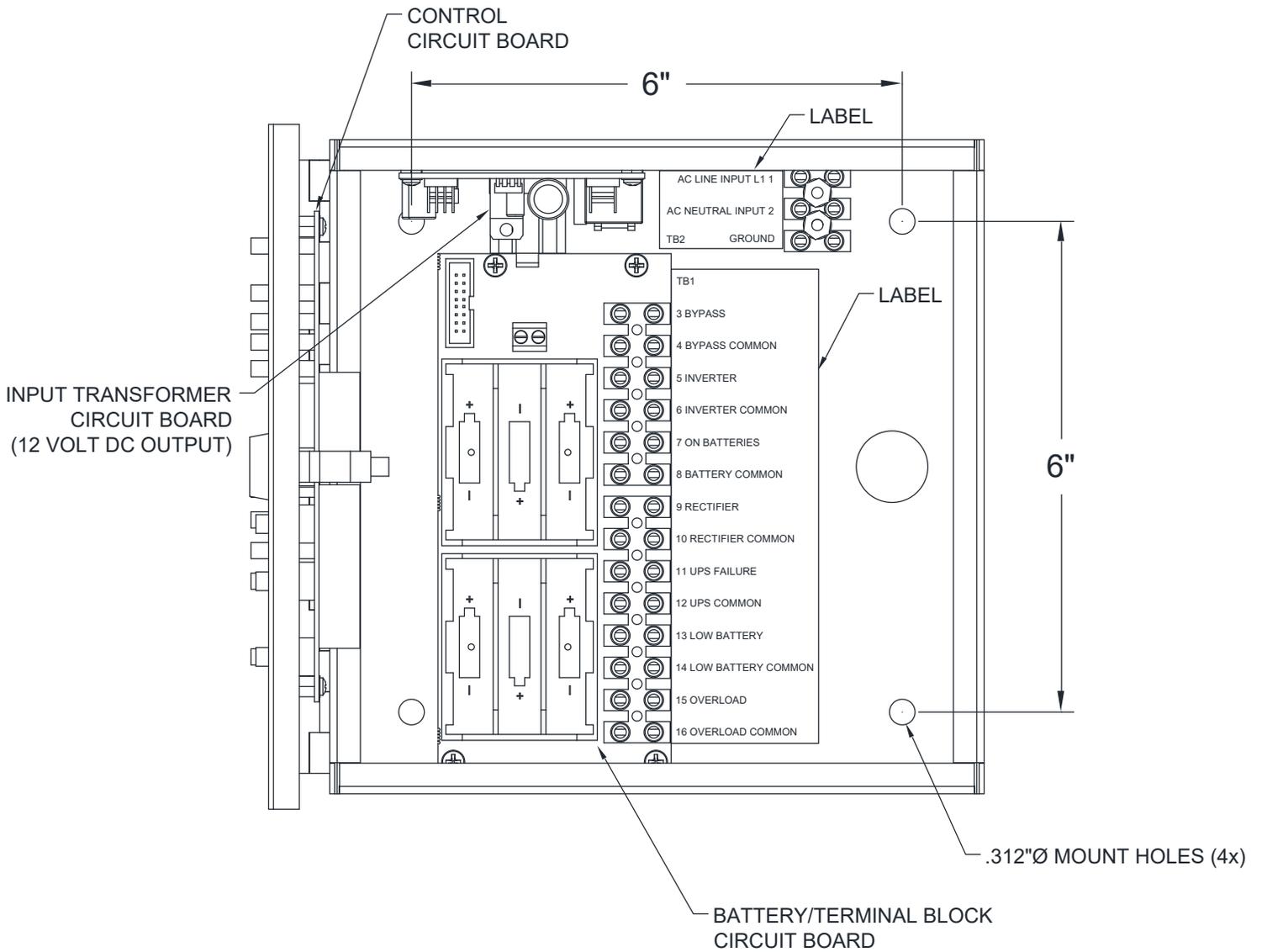
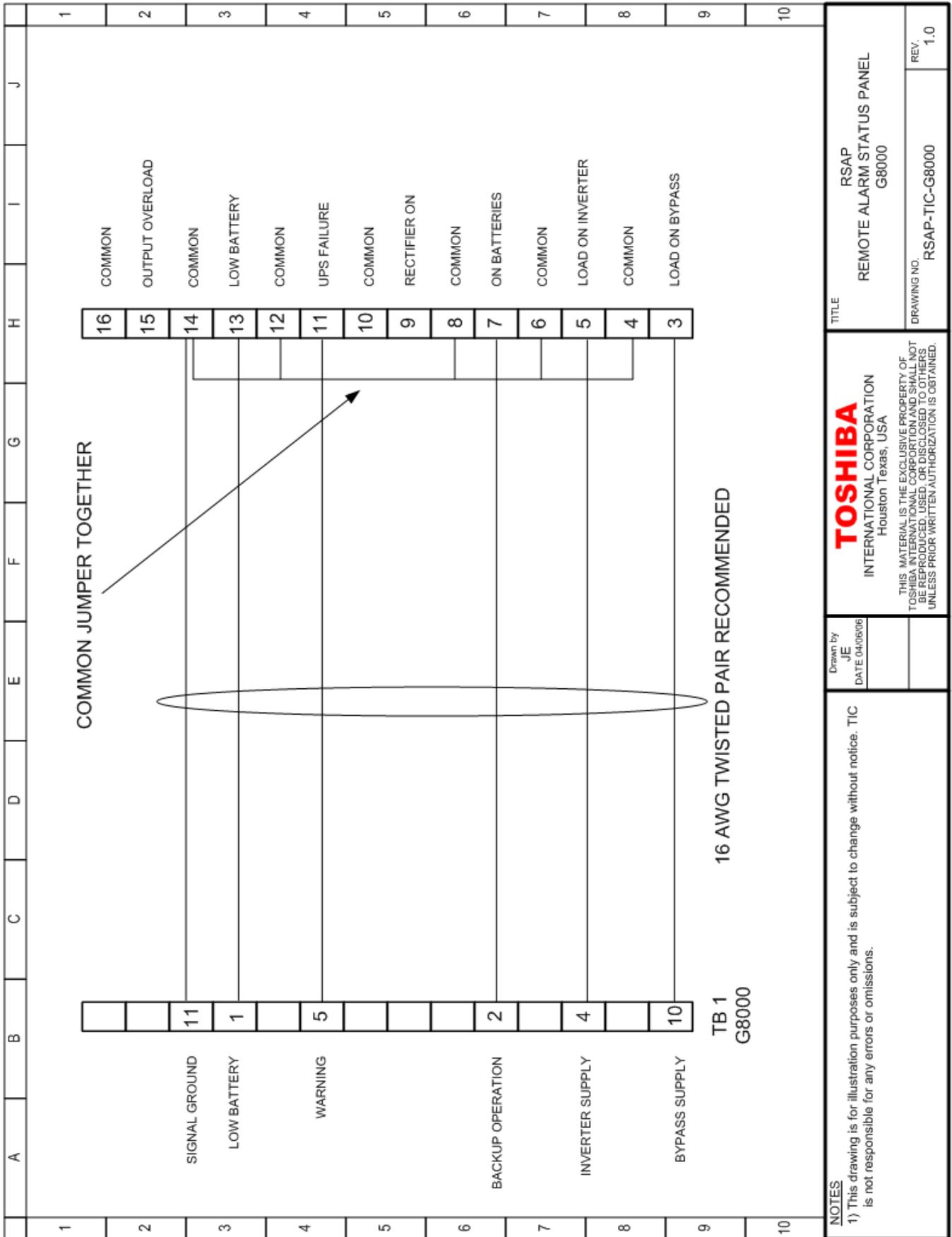


FIGURE 3.1



OVERLOAD COMMON	14	16	OUTPUT OVERLOAD COMMON
OVERLOAD	13	15	OUTPUT OVERLOAD
LOW BATTERY COMMON	12	14	LOW BATTERY COMMON
LOW BATTERY	11	13	LOW BATTERY
SUMMARY ALARM COM.	2	12	UPS FAILURE COMMON
SUMMARY ALARM	1	11	UPS FAILURE
CONVERTER OPERATION COM.	10	10	RECTIFIER COMMON
CONVERTER OPERATION	9	9	RECTIFIER
BATTERY OPERATION COM.	8	8	BATTERY COMMON
BATTERY OPERATION	7	7	ON BATTERIES
INVERTER COMMON	6	6	INVERTER COMMON
LOAD ON INVERTER	5	5	LOAD ON INVERTER
BYPASS COMMON	4	4	BYPASS COMMON
LOAD ON BYPASS	3	3	BYPASS

EXTERNAL TERMINAL STRIP IN UPS (TN2)

#16 AWG TWISTED PAIR RECOMMENDED

TERMINAL STRIP TB1 IN R.S.A.P.

REMOTE STATUS ALARM PANEL (RSAP) INTERCONNECT DIAGRAM
TOSHIBA G9000 UPS

DIMENSIONS ARE IN INCHES:		DATE	
TOLERANCES:	DIMENSIONS	P/C	5/20/13
DECIMALS: .XX ±.03	ANGLES: ±1°	PIECED	T/W
WATERPROOFING:		5/20/13	
FINISHES:			
CAD GENERATED DRAWING DO NOT MANUALLY UPDATE			
REVISIONS	REV.	SHEET 1 OF 1	

TOSHIBA
INTERNATIONAL CORPORATION
Houston, Texas, USA

MANUFACTURED BY C&C POWER
FOR TOSHIBA INTERNATIONAL CORPORATION
© 2012 C&C POWER, INC. ALL RIGHTS RESERVED

6. WARRANTY

LIMITED WARRANTY AND EXCLUSIONS

C&C Power, Inc. strives to produce quality products at reasonable prices. If you are not satisfied with our product because of a defect, we will repair or replace the defective part or parts free of charge for a period of one year from the date of purchase. In the event you claim that the product contains a defect, simply notify C&C Power, Inc. of the defect, and we will arrange for repair or replacement. The sole and exclusive remedy against C&C Power, Inc. relating in any way to a product defect shall be the repair or replacement of defective parts as provided for under this LIMITED WARRANTY. No other remedy, including, but not limited to, incidental or consequential damages for lost profits, lost sales, injury to person or property, or any other incidental or consequential loss, is available. This LIMITED WARRANTY shall not be deemed to have failed of its essential purpose so long as C&C Power, Inc. is willing and able to repair or replace defective parts in the manner prescribed in this LIMITED WARRANTY.

Certain integrated products, which are not manufactured by C&C Power; will be warranted by the applicable manufacturer. These warranties shall be between the manufacturer and the user. Terms and conditions may vary. These integrated products include, but may not be limited to, the following products: Batteries, Inverters and UPS Systems.

Any action for breach relating to the sale of a C&C Power, Inc. product must be commenced within one year after the cause of action has accrued.

THIS LIMITED WARRANTY IS IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, AND ALL SUCH WARRANTIES ARE EXCLUDED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

