



3200 Series Remote Status Alarm Panel

Installation Guide

1. PHYSICAL CHARACTERISTICS

Weight: 10lbs (4.5 kgs.)

Height: 8 1/4 inches (210 mm)

Width: 8 5/16 inches (211 mm)

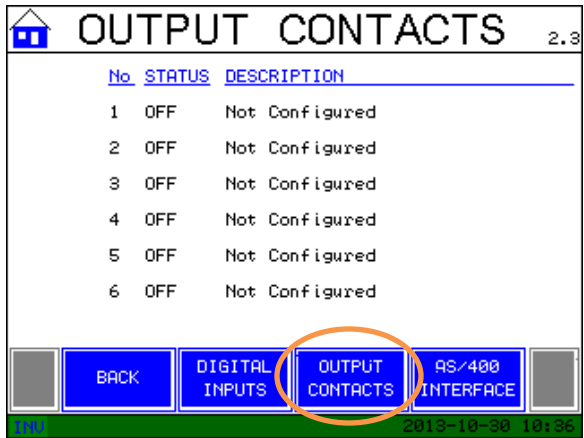
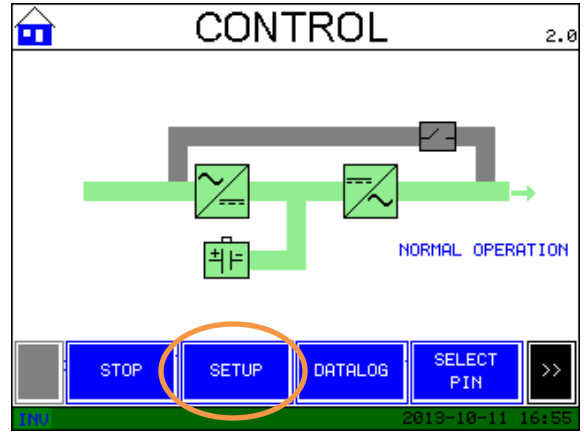
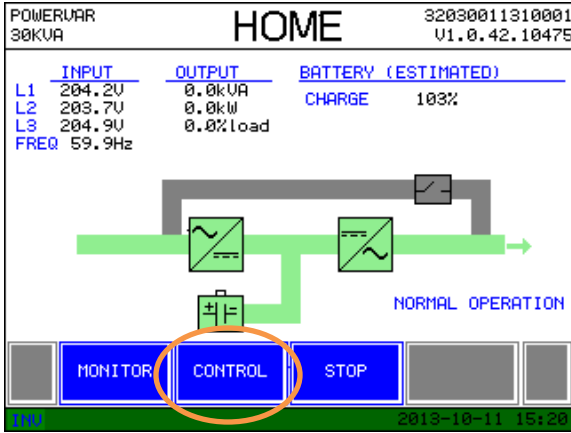
Depth: 4 5/16 inches (110 mm)

2. INSTALLATION:

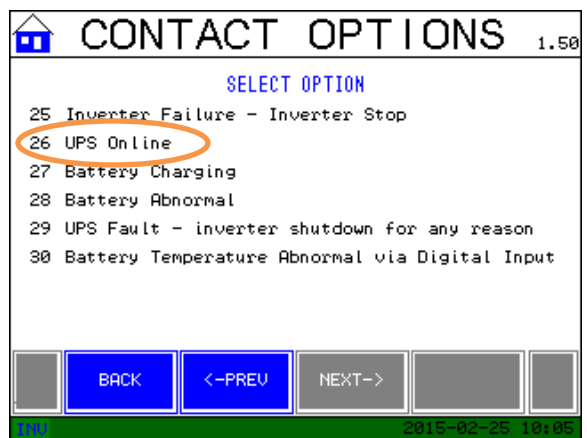
1. Locate the area where the Remote Status Alarm Panel (RSAP) will be installed. The monitor should be within 1,500 feet (500 meters) of the UPS.
2. Mount the monitor to the wall using the four pre-drilled holes in the back. Use appropriate hardware for the installation.
3. Wiring requirements are: twelve conductor #16 AWG cable run in metal conduit. All electrical and mechanical connections to be made per local and/or national electric codes.
4. Connect the conduit to the RSAP by punching the appropriately sized hole in a convenient location. **Caution!** Care should be taken not to damage any internal components when drilling hole for conduit.
5. Referring to the RSAP to UPS wiring diagram, connect t#16 AWG conductors from the RSAP to the customer accessible output contacts located on the rear of the touch screen. (Refer to the UPS' owner's manual for location). Install jumper and diode jumpers (supplied with RSAP) as shown.
6. Install (6) AA batteries (included). Batteries will provide about 8 hours of run time in the event of an AC power failure. Replace these batteries yearly for optimum performance.
7. From a 120V circuit, connect L1, Neutral and Ground to their designated terminals. See wiring diagram.

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

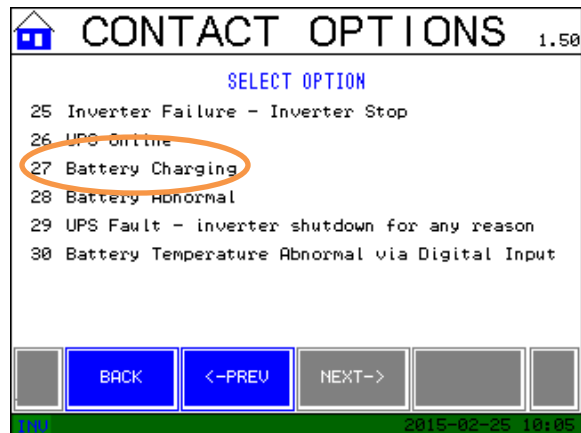
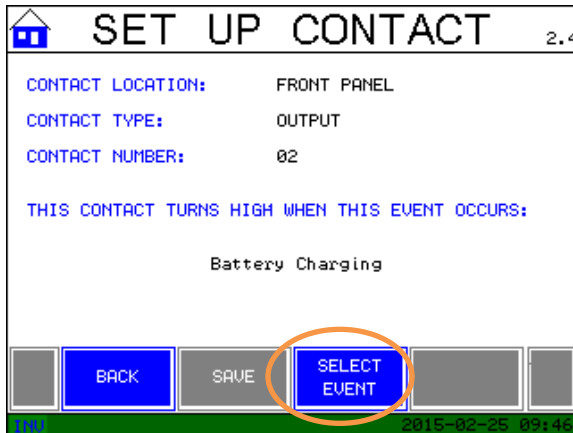
8. **Program the UPS output contacts:** in the "Control" menu on the touch screen, select "setup" then "I/O Contacts" then "Output Contacts".



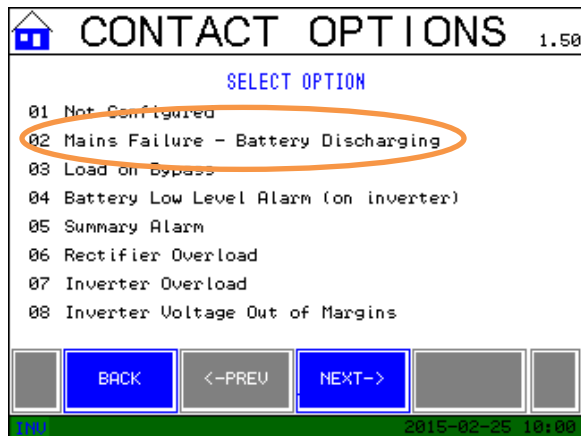
Touch contact #1 and the following set up screen will appear, then "Select Event". From the available 30 options, select # 26, "UPS Online", then touch "Save".



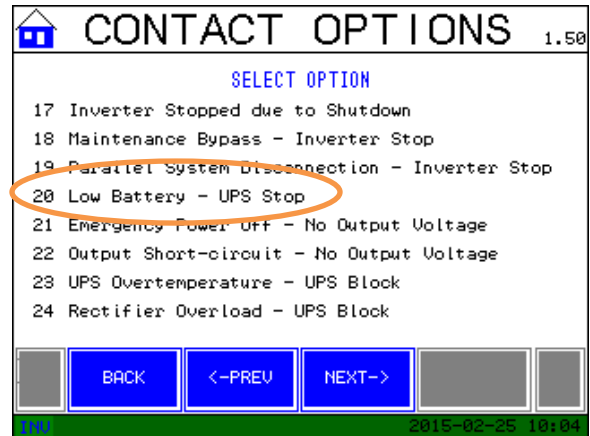
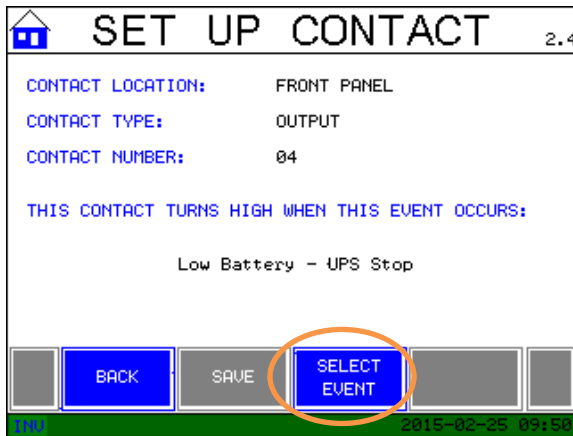
To move on to contact #2 hit “Back” and then “Output Contacts”, then touch contact #2. Touch “Select Event”, then scroll to find #27 “Battery Charging”, then touch “Save”.



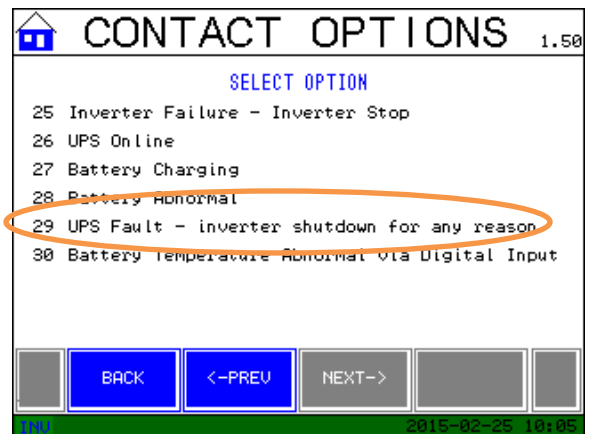
To move on to contact #3 hit “Back” and then “Output Contacts”, then touch contact #3. Touch “Select Event”, then scroll to find #02 “Mains Failure - Battery Discharging”, then touch “Save”.



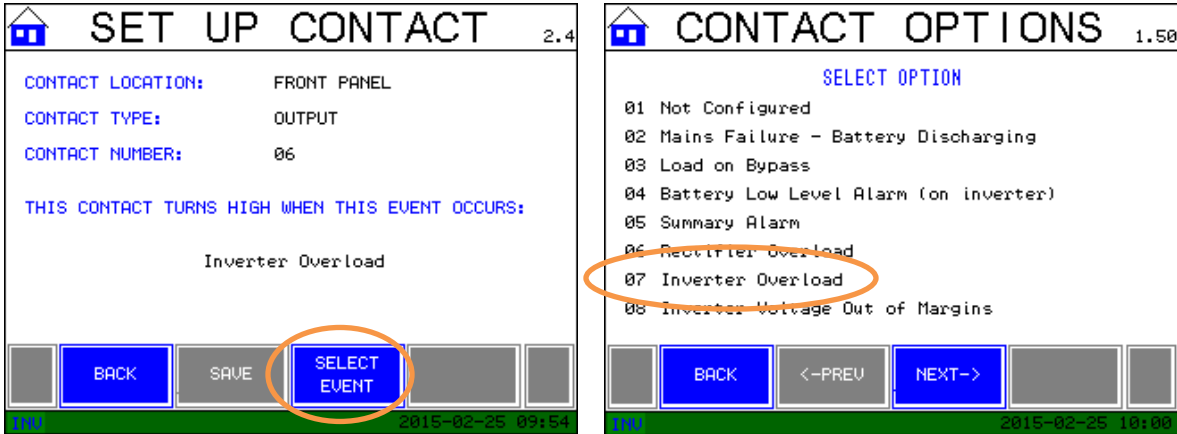
To move on to contact #4 hit “Back” and then “Output Contacts”, then touch contact #4. Touch “Select Event”, then scroll to find #20 “Low Battery-UPS Stop”, then touch “Save”.



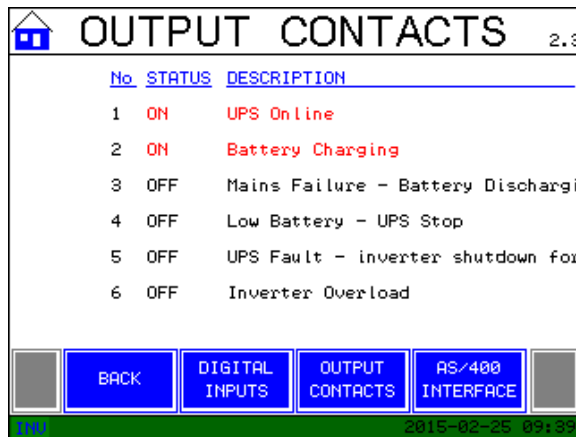
To move on to contact #5 hit “Back” and then “Output Contacts”, then touch contact #5. Touch “Select Event”, then scroll to find #29 “UPS Fault – Inverter shutdown for any reason”, then touch “Save”.



To move on to contact #6 hit “Back” and then “Output Contacts”, then touch contact #6. Touch “Select Event”, then scroll to find #07 “Inverter Overload”, then touch “Save”.



When the all six contacts are properly programmed your “Output Contacts” screen should look like this:



Shut down and restart UPS to insure that all of the programming changes that you have made have been saved.

Note: This step may not be possible if RSAP has been added to an existing system and the UPS is already in service.

3. OPERATING INSTRUCTIONS

ALARM SILENCE pushbutton is used to silence the 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 the RESET.

Monitor TEST pushbutton is used to check the operation of all LED's and the audible alarm. All LED's that are illuminated will go off and all lights that are off will illuminate. Horn will also sound.

INTERNAL MONITOR BATTERY TEST button is used to test the condition of the monitor's battery pack. If the yellow LED does not illuminate, replace the batteries.

Reset the RSAP as follows:

1. On the UPS, note the alarm and it's fault code. If applicable, contact 24 hour UPS field service.
2. If no alarm code is present, press the monitor reset button.
3. If the monitor's audible alarm sounds again repeat steps 1 and 2.
4. Contact POWERVAR service if the alarm cannot be reset after a few attempts.

4. FRONT PANEL LED & AUDIBLE ALARM SUMMARY

Refer to Figure 1.1 for the location of the LED's and pushbuttons described below:

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. The audible alarm will also beep intermittently.
3. **Inverter On LED:** This 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 and the audible alarm sounds when a UPS overload has occurred.
9. **Input Failure LED:** This red LED is illuminated and the audible alarm sounds when there is an Input power outage.
10. **Battery Low Voltage:** This red LED is illuminated and the audible alarm sounds as soon as the DC bus voltage approaches its cutoff voltage.
11. **Alarm Silence LED:** This red LED will stay illuminated if the alarm silence button has been pressed and alarm condition is still present. If the alarm condition clears, the alarm silence LED 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. DRAWINGS AND DIAGRAMS

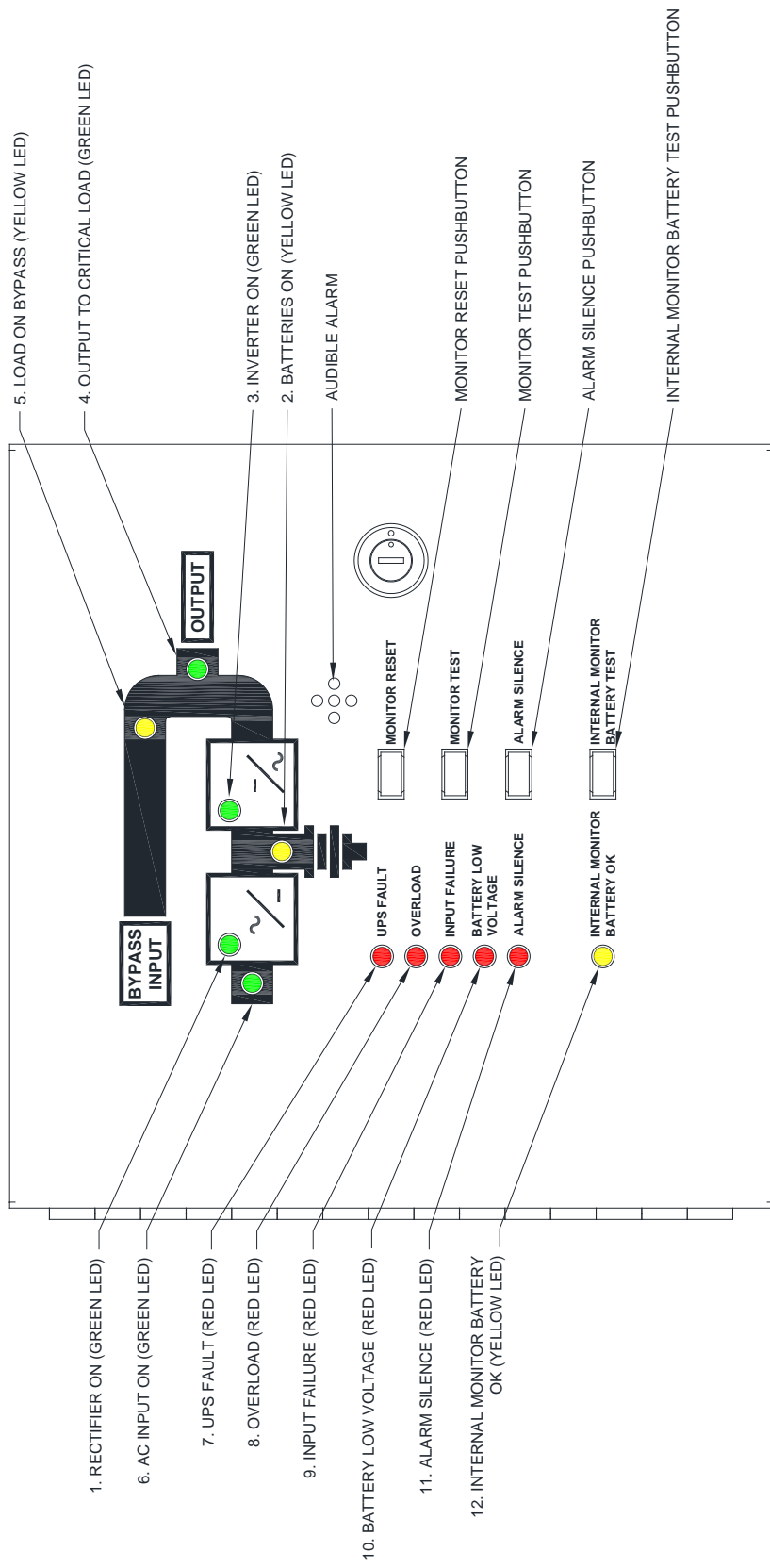
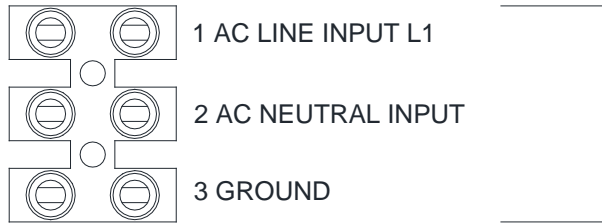
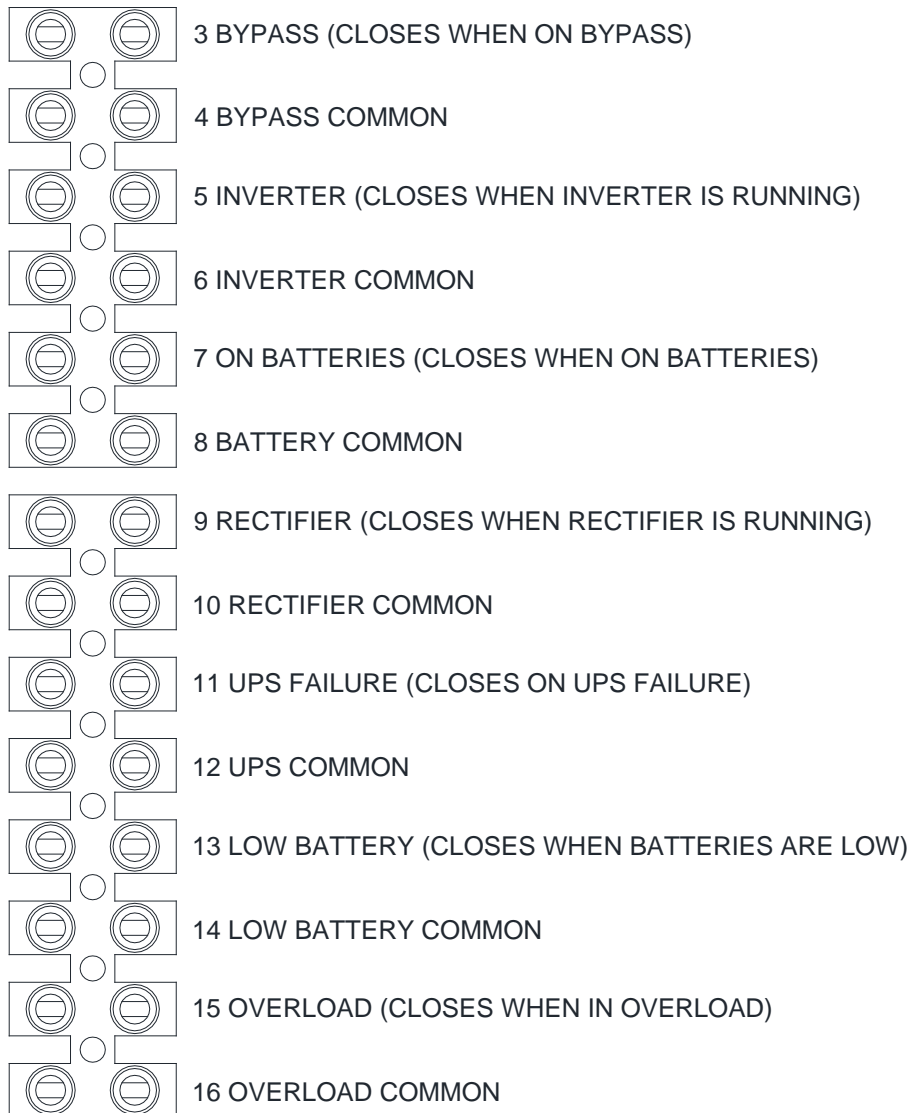


FIGURE 1.1
(INTERNAL POWER SUPPLY / HARDWARE OPTION)



TB2

(INTERNAL POWER SUPPLY / HARDWIRE OPTION ONLY)

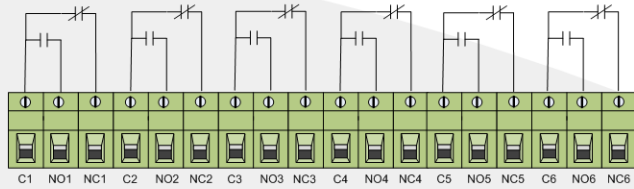


TB1

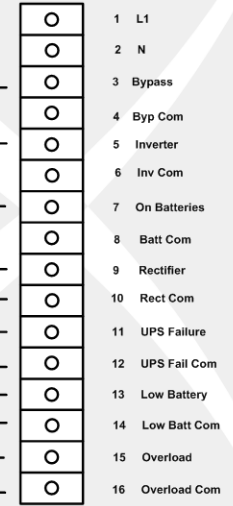
(BOTH OPTIONS)

Remote Status Alarm Panel to UPS wiring diagram

UPS output contacts



RSAP terminals



POWERVAR Inc.		
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