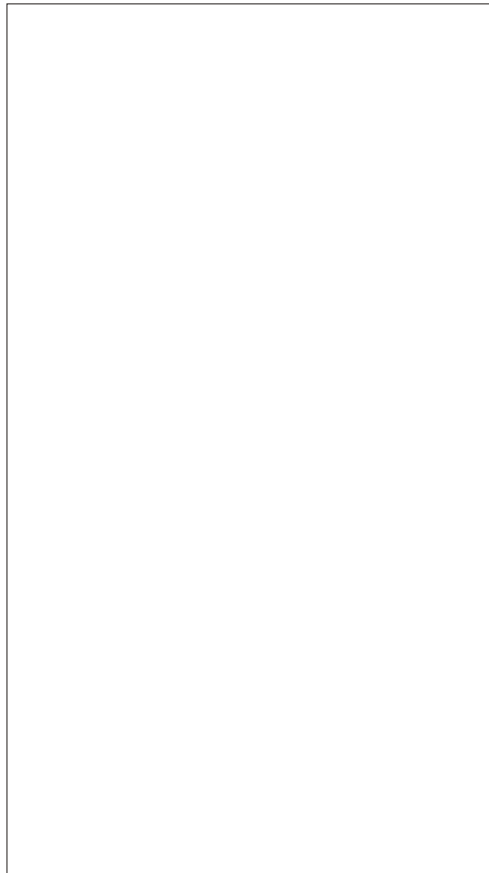


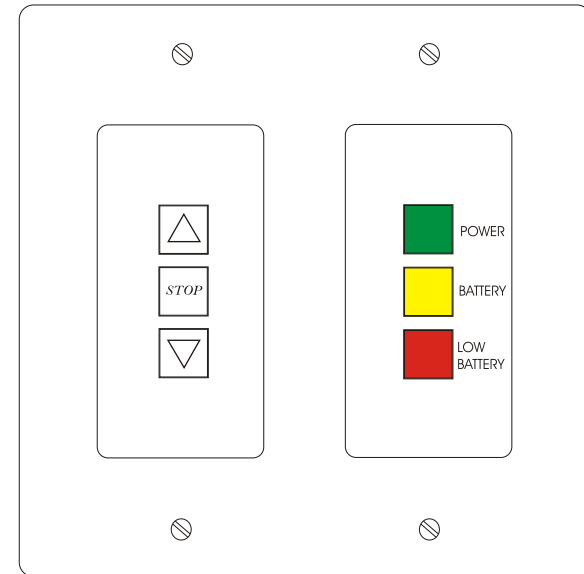
For sales and service  
Contact:



# B.B.S.

## BATTERY BACKUP SYSTEM

**simu**<sup>®</sup>



**NEVER BE WITHOUT POWER! YOUR MOTORIZED SYSTEM WILL OPERATE FOR UP TO THREE DAYS DURING A POWER OUTAGE**

\*THREE INDICATOR LIGHTS KEEP YOU INFORMED ON POWER CONDITIONS.

\*YELLOW INDICATOR LIGHT ALLOWS THE CONTROL TO BE LOCATED IN A DARK ROOM EVEN IF THE POWER IS OUT.

\*SIMPLE, LOW VOLTAGE BUS LINE ALLOWS BBS CONTROLS TO BE CONNECTED TO STANDARD SWITCHES FOR GROUP CONTROL

\*ALLOWS MULTIPLE SWITCHES TO BE CONNECTED TO THE INDIVIDUAL OPERATOR.

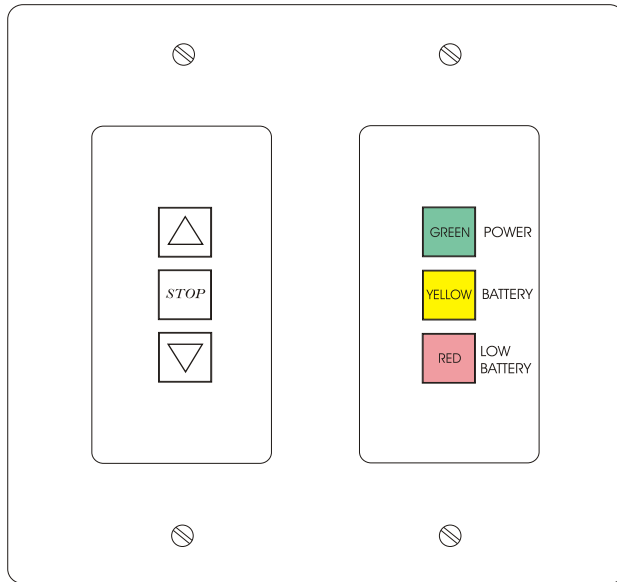
\*BUILT IN CONNECTION FOR EXTERNAL SWITCHES ALLOWS OTHER DEVICES SUCH AS FIRE ALARMS, BURGLAR ALARMS, AND HOME AUTOMATION CONTROLS WITH NORMALLY OPEN, DRY CONTACTS TO DIRECTLY INTERFACE.







\*SELF RESETTING OVER CURRENT PROTECTION AND INTELLIGENT MICROPROCESSOR SELF TESTING, PROTECT AGAINST MISWIRING AND PROVIDE FAST, EASY TROUBLE SHOOTING.

**NOTE: THE BBU SYSTEM SHOULD BE LEFT FOR 24 HOURS WITH THE GREEN CHARGE LIGHT ON BEFORE USE.**

USER MANUAL


## OPERATING INSTRUCTIONS:



- 1) When the unit is stopped, pressing the up  or down  will make the motor run in the selected direction for one minute unless another command is given or the motor stops at its limit.
- 2) When the motor is running, pressing the stop  or pressing and releasing the other direction will stop the motor.
- 3) If an external switch is connected to the unit, it will operate as the face plate switches described above.
- 4) If an external switch does not have a stop button, you can still stop the unit in the a middle position by pressing and releasing the other direction.
- 5) If the green light  is on, the unit has line power to it and is producing a good charge voltage.
- 6) If the yellow light  is blinking, the line power is off or disconnected and the unit is running on battery power.
- 7) If the red light  is blinking, the battery power is low and the motor should be run to the position it is desired to be left in until line power is on and the battery has recharged (about 24 hours).
- 8) If no lights are on, the unit has gone into sleep mode to keep the battery from critically discharging. If the power is on for over 24 hours and there still are no lights the battery must be replaced.

## MAINTENANCE:

**INSTALLATION AND SERVICE MUST BE DONE BY A LICENCED ELECTRICIAN  
WARNING: THE BATTERY BACKUP UNIT IS CONNECTED TO 120 VAC  
(ALL WIRING SHOULD BE DONE WITH THE POWER TURNED OFF)**

- 1) The battery should be replaced every 3 years.
- 2) Test the BBU as described in **TESTING** at least once a week.
- 3) Test the BBU as described in **TESTING** after any power outage that last over 1 hour.
- 4) If the house power is on and the green light  is not on, call for service.
- 5) If the lights are blinking in any combination not described in the operating instructions, call for service.

**NOTE: If the motor does not pass testing or requires service, it should be serviced immediately and notice should be taken that the unit may not work until serviced.**

## TESTING:

**To test the battery.** let the unit charge with a green light for 24 hours. Use the face plate switches to run the unit up and down several times. The green light should stay on (The red light may turn on or all lights may turn off for a second when the motor starts or stops. This is normal) If the red light stays on blinking or all lights stay off for more than 3 seconds (The green light does not come back on while the motor is running), the battery needs to be replaced. If the unit seems to be running slower than normal during this testing, the battery should be replaced. The battery should be replaced every 3 years