

TRISTAR LED INDICATIONS

LED Display Explanation:

- G = green LED is lit
- Y = yellow LED is lit
- R = red LED is lit

G/Y = Green and Yellow are both lit at the same time G/Y - R = Green & Yellow both lit, then Red is lit alone Sequencing (faults) has the LED pattern repeating until the fault is cleared

1. General Transitions:

- Controller start-up
- Pushbutton transitions
- Battery service is required

2. Battery Status

- General state-of-charge
- PWM absorption
- Equalization state
- Float state

G - Y - R (one cycle) blink all 3 LED's 2 times all 3 LED's blinking until service is reset

see battery SOC indications below G blinking (1/2 second on / 1/2 second off) G fast blink (2 to 3 times per second) G slow blink (1 second on / 1 second off)

Battery State-of-Charge LED Indications (when battery is charging):

- G on
- G/Y on
- Y on
- Y/R on
- R on

80% to 95% SOC 60% to 80% SOC 35% to 60% SOC 0% to 35% SOC battery is discharging

LOAD CONTROL 2. Load Status				
		<u>12V</u>	24V	48V
G G/Y Y	LVD+ LVD+	0.60V 0.45V	1.20V 0.90V	2.40V 1.80V
Y/R R-Blinking R-LVD		0.30V 0.15V	0.60V 0.30V	1.20V 0.60V

The load status LED's are determined by the LVD voltage plus the specified transition voltages. As the battery voltage rises or falls, each voltage transition will cause a change in the LED's.

3. Faults & Alarms

- Short circuit solar/load
- Overload solar/load
- Over-temperature
- High voltage disconnect
- Reverse polarity battery
- Reverse polarity solar
- DIP switch fault
- Self-test faults
- Temperature probe (RTS)
- Battery voltage sense

R/G - Y sequencing R/Y - G sequencing R - Y sequencing no LED's are lighted No fault indication R - Y - G sequencing R - Y - G sequencing R/Y - G/Y sequencing R/Y - G/Y sequencing