

**BC3KW LED SEQUENCE**

11/12/01 KD

**To Consider:**

Battery or Vehicle conditions (i.e. hot batteries, disconnected sensor)

Charger inputs (i.e. battery voltage, temp sensor)

LED outputs (i.e. Red1, Red2, Red3, Green, Yellow)

Charger action (Charge full power, no charge, fan)

<b>Battery and Vehicle Conditions to Test:</b>	<b>Method</b>	<b>LED Sequence</b>	<b>Charger Action</b>
Normal start-up sequence		Yellow and Green flash once, then bulk charge begins	Charging begins, Fan turns on
Normal charge sequence		Red1-Bulk Charge, Red2-Overcharge, Green-Float/Done	Charging full power, Fan runs
Charge profile indicator	Flip 0/1 switch inside charger	Red3 on: 144V/336V Profile, Red3 off: 156V/312V Profile	
AC overvoltage			
AC undervoltage			
DC overvoltage			
DC undervoltage		Yellow, Blinking green 1/1 sec.	Start charging after 20 Sec
Batteries not connected		Yellow and blinking Green, 1 Hz	No Charge, No Fan
Batteries not connected and both temp sensors open		Yellow and blinking Green, 1 Hz	No Charge, No Fan
Both temp sensors open		Yellow blinking 1/5 seconds	Charge full power
Both temp sensors shorted		Yellow, Red 1, Green blinking 1/1 sec	No Charge, No Fan
One sensor open, one shorted		Yellow, Red 1, Green blinking 1/1 sec	No Charge, No Fan
Disconnect one temp sensor during normal charge		Solid Yellow and Green. 20 seconds after disconnect.	No Charge, No Fan
Short one temp sensor during normal charge		Yellow, Red 1, Green blinking 1/1 sec	No Charge, No Fan
Both temp sensors at 30C		Normal Operation	Charge full power
Both temp sensors at 50C		Normal Operation	
Both temp sensors at 60C		Yellow, Red 1, Green blinking 1/1 sec	No Charge, No Fan
Reconnect both open sensors to normal while plugged in to AC		Green	Float Charge
Reconnect both shorted sensors to normal while plugged in to AC		Yellow, Red 1, Green blinking 1/1 sec	No Charge, No Fan