# Technical Bulletin Solar Bolt™ LED Logic

The Purkeys Solar Bolt has been updated periodically in order to continuously improve the product. To clarify questions about the different versions of the Solar Bolt controller, the following information breaks the LED light logic down by model so you can easily find the LED logic that applies to your version of the product.

## **Original Solar Bolt**



### Solar Bolt as of 10/2020



LED	Status	
Blinking Red	Battery below 12.4 V, above 16 V, or fault	
Blinking Green	Battery above 12.4 V	
Solid Green	Battery above 13.2 V	

LED	Status	Function
Green LED	On	Not charging
	Flashing	Charging
Yellow LED	On	Normal battery voltage
	Flashing	Low battery voltage
Red LED	Off	Normal operation
	On	System fault
	Super Slow (0.2/5s)	Open circuit protection fault or no solar available
	Flash (0.5s/0.5s)	Over temperature fault

Solar Bolt as of 2/2022

PURKEYS	
SOLAR BOLT	

LED	Status	Function		
Left Red LED Solar Indicator	Off	Solar voltage too low		
	On	Solar panel voltage good		
	Slow flash	System is charging		
	Double flash	Batteries fully charged		
	Fast flash	Fault over temp or current		
LED	Status	Function		
Right Red LED Battery Indicator	Off	Battery not connected		
	On	Working correctly		
	Fast flash	Battery discharged		



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## Solar Bolt: 20 Amp Controller



#### LED **Status** Function Off Solar voltage too low On Solar panel voltage good Left Red LED Slow flash System is charging Solar Indicator Double flash Batteries fully charged Fault over temp or Fast flash current Off Battery not connected Middle Red LED On Working correctly **Battery Indicator** Fast flash Battery discharged

#### Solar Bolt: 30 Amp Controller

Gen4 Intellig	ent MPPT	
Solar Charg		
MPPT		W
		Y
Nedel	SR-MPL242	
Battery Woltage	124 244	
Max Solar Fower	25000 5300	
Solar Virga	179-729 38/-7	žv
Max Solar Visc	3004	1
Max Charging Comm		
Mes Load Carrent	26A	
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Wanking : Make sums that these is no Phase consect wire in the	shift croat in each van	

LED	Status	Function		
Green LED Solar Indicator	On	Solar Voltage too low		
	Off	No voltage		
	Slow flash	System is charging		
	Fast flash	Overvoltage		
LED	Status	Function		
Green LED Battery Indicator	Solid	Battery normal		
	Slow flash	Battery fully charged		
	Fast flash	Battery overvoltage		
Orange LED Battery Indicator	Solid	Battery under voltage		
Red LED	Solid	Battery discharged		

Fast flash

Battery overheated

Please contact Purkeys' Technical Services Department if you have any questions. Phone: 479-419-4800 | www.purkeys.net/contact/

**Battery Indicator** 



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