

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



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

Solar Bolt as of 10/2020



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



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™ LED Logic

Solar Bolt: 20 Amp Controller



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
Middle Red LED Battery Indicator	Off	Battery not connected
	On	Working correctly
	Fast flash	Battery discharged

Solar Bolt: 30 Amp Controller



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 Battery Indicator	Solid	Battery discharged
	Fast flash	Battery overheated

Please contact Purkeys' Technical Services Department if you have any questions.
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