

# GEN 3 MPPT / DCDC CHARGER

## FOREWORD

- Do not disassemble or immerse in water
- Use and store at temperatures above -20°C and below 40°C
- Do not connect to solar panels with less than 12V or more than 32V:
  - If connecting to REE Solar panels, make sure they are connected in parallel:  
**Not doing so will void the warranty**
- Protect with 60A fuses
- Make sure you use sufficient wire size: if installing with a REE Solar kit, make sure you double the 10AWG wire on the positive alternator input and keep the black chassis wire under 3 ft

## INSTALLATION

- Keep wires as short as possible
- Connect to the + and - poles of a 12v battery using the red and black wires
- Connect to alternator with the yellow wire
  - Cut-in voltage: 13.2V, cut-out: 12.8V
  - Insufficient wire size will cause the unit to cycle on and off and will prevent charging
- Connect to the solar positive with the green cable
- Connect the solar negative to the common ground
- Connect the purple wire to ignition / D+ if using a smart alternator
- Make sure the alternator negative and battery negative are connected to common ground
- Do not hesitate to reach out to [info@reesolar.ca](mailto:info@reesolar.ca) if you need more information during your installation

## TROUBLESHOOTING & OPERATIONS

ALT	SOLAR	BATTERY	FAULT	STATE (** = ERROR)
F		S		ALTERNATOR CHARGING
	F	S		SOLAR CHARGING
S		S		***LOW ALTERNATOR VOLTAGE
	S	S		***LOW SOLAR VOLTAGE
		F	S	***BATTERY OVERVOLTAGE
F			S	***ALTERNATOR OVERVOLTAGE
	F		S	***SOLAR OVERVOLTAGE
			S	***HIGH INTERNAL TEMPERATURE

S = SOLID  
F = FLASHING

