

# 12 V POWER INVERTERS

## M1500 – M2000

### OPERATING GUIDE — TO BE LEFT IN VEHICLE



DC/AC POWER INVERTERS



A power inverter is an energy conversion device that **MUST** be taken seriously and that **MUST** be used with great caution. **It must never come into contact with water or any other liquid.**



**Starting cycle:** When the inverter starts, it beeps once and the fan runs for 1 second.



The inverter is equipped with a **thermostatic fan** that only works when necessary.



**Alarm:** An alarm will sound if the inverter detects an error or if the battery voltage has reached a critical discharge level of 11.5 V.



**Automatic restart:** If the inverter shuts down for protection, it will restart automatically once the situation returns to normal.

INVERTER

**Indicator light:**

- Solid green: On
- Flashing green: Low voltage
- Flashing orange: Error

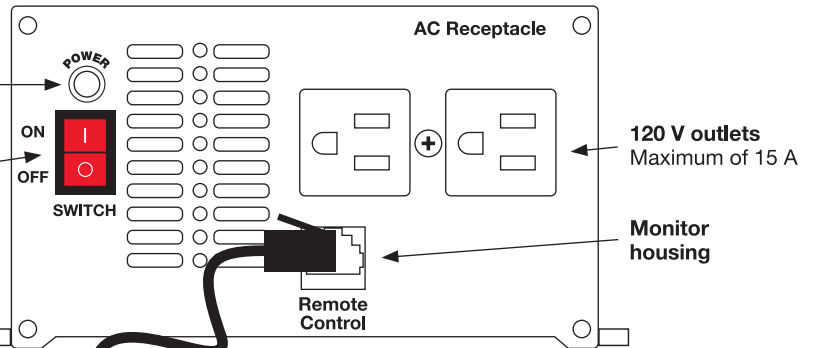
**Main ON/OFF switch:**

Turns power ON or OFF

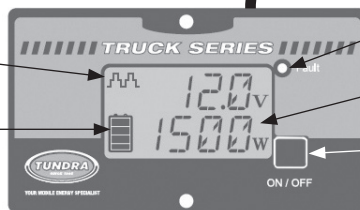
**Monitor cable (20 ft.)**

**Sine wave type**

**Battery state of charge**



MONITOR



**Red indicator light: Error**

**Power supplied by the inverter**

Accessories with a consumption of less than 50 W may not be displayed by the inverter.

**Secondary ON/OFF switch:**

Turns power ON or OFF remotely (the main switch must be in the ON position).

TROUBLESHOOTING

ERRORS	ALARM	CAUSE(S)	SOLUTION(S)
	<b>Intermittent:</b> Critical discharge level <b>Constant:</b> Shutdown	<ul style="list-style-type: none"> <li>• Discharged batteries</li> <li>• Inadequate installation</li> <li>• Maintenance required</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Recharge the batteries</b> The inverter will restart automatically when battery voltage reaches more than 13.2 V for at least 2 sec.</li> </ul>
	<b>Intermittent</b>	<ul style="list-style-type: none"> <li>• Excessive power consumption</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Disconnect devices</b></li> <li>• <b>Run one device at a time</b> The inverter must be shut down and restarted manually to clear the error code.</li> </ul>
	<b>Constant</b>	<ul style="list-style-type: none"> <li>• Environment too hot</li> <li>• Insufficient airflow</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Let the inverter cool down</b> The inverter will restart automatically when the temperature returns to normal.</li> </ul>
	<b>Constant</b>	<ul style="list-style-type: none"> <li>• Defective alternator</li> </ul>	<ul style="list-style-type: none"> <li>• <b>The alternator needs service</b> The inverter will restart automatically when battery voltage drops below 14.5 V for at least 2 sec.</li> </ul>

MAINTENANCE

**The inverter requires periodical maintenance to ensure its proper operation:**

- The battery compartment and the top of the batteries should always be as clean as possible to avoid accidental and unnecessary discharge cycles.
- The environment around the inverter should be cleaned regularly to prevent dust accumulation inside the circuits.
- The 12 V input bolts should be checked regularly.
- Twice a year, the cable terminals on the batteries and the fuse must be disassembled and cleaned to remove harmful deposits.
- The cables between the inverter and the batteries should be inspected regularly to detect damage and/or cracks.

**SAFETY FIRST**

Do not carry out maintenance tasks if you don't have the knowledge and skills required.



Detailed manuals are available at [tundrainverters.com](http://tundrainverters.com)



For additional support, 1-877-964-2582 or 450-649-2470