

30A BATTERY MANAGEMENT SYSTEM

The Thunder 30A Battery Management System offers a comprehensive charging and maintenance solution for your 4WD, caravan and camper trailer. Designed to charge and maintain auxiliary batteries, the Thunder Battery Management System is the perfect addition to any vehicle requiring the management of a dual battery setup.

Designed to be a long-term solution with the highest level of safety in mind, the Thunder Battery Management System features a unique 8 stage charging program with the intelligence to determine the best charge rate for your auxiliary battery. The remote mount Bluetooth LCD screen also conveniently gives you better visibility on your battery's state of charge, so you never have to worry about having a flat battery again.

Whether you're heading off the grid or camping at a powered site, Thunder's Battery Management System ensures you will always have the power you need.



TDR02026

FEATURES & BENEFITS

Heavy duty aluminium case

Easy to read remote mount Bluetooth LCD screen

30A 240V charging

30A DC-DC charging

Solar input MPPT regulated output (50V 500W max)

Displays battery time to empty

Usage monitoring in and out

Displays battery percentage

12-24V system input with 12V output

0-60°C operating temperature

Microchip monitoring and control fully automates high frequency multi-stage charging

Pulse mode technology that reduces oxidation and minimises temperature equating to longer battery life

Unit will automatically change charge rate mapping for GEL, AGM, Calcium and standard Lead Acid

Lithium battery charging profile option

Internal charger temperature monitoring and power output control

Over charging, short circuit and over temperature protection

Reverse polarity protection



For more information visit <http://napaprolink.com.au>

SPECIFICATIONS

Output 240V	30A
Output DC-DC	30A
Input Fuse Rating	Minimum 50A
Output Fuse Rating	Minimum 50A
Vehicle Input Voltage Range	12.2V - 30V* (If >30V the unit will shut off, reset will be needed)
Minimum/Maximum Charging Voltages	13.1V - 15.2V (stops charging when battery is below 12.2V)
Lithium Voltages	14.2V bulk, 13.2V float
Solar Input Voltage Range	13V-50V
Maximum Solar Watt Input	500W (exceeding 500W of solar will damage the unit)
Charging Style	8 Stage from vehicle and 3 stage from solar and lithium
Operating Temperature	0°C to 60°C (current de-rates after 60°)
Float Voltage	13.8V
Standby Current	10mA
Battery Range	18 to 500Ah
External Shunt	200A



RECOMMENDED MINIMUM CABLE LENGTH / TWIN CORE

0 - 10 METRES	6 B&S/6AWG* amperage control
OVER 10 METRES	Consult an auto electrician

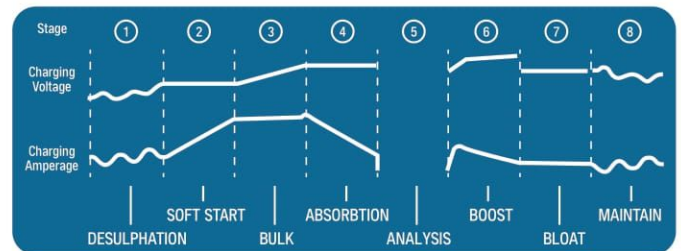
*When fitting the TDR02026 to a caravan, the cable will need to be connected to the towing vehicle with a suitable heavy duty connector such as a 50A Anderson connector or similar.

INTEGRATED BLUETOOTH LCD SCREEN

Keeping track of exactly what is happening to your auxiliary and start batteries is paramount when traveling off the beaten track. The Thunder 30A Battery Management System comes with a Bluetooth LCD interface screen, allowing you to have a better visibility of your battery's state of charge, without looking directly at the unit. Designed for convenience, the portable LCD screen allows you to see the main and auxiliary battery voltages, auxiliary battery percentage, battery time till empty and how much current is flowing in and out of the battery. Other features include the battery fault warning symbol located in the bottom right corner indicating any battery issues.

DISPLAY SCREEN

1. Input Current
2. Bluetooth Active
3. Battery Capacity
4. Output Current
5. Battery Percentage
6. Battery Gauge
7. Time to Empty
8. Display Switch
9. Battery Fault Indicator
10. Lithium Mode
11. Battery Amp Hour Set
12. Charging Input Active
13. Auxiliary Battery Voltage



THE SMART CHARGER

This charger automatically employs an 8 stage charging program. These stages switch from one to the next without any user input required.