

CENTRAL CONTROLLER

HT-2560



HI-TECH
POWER SOLUTIONS

NEW ARRIVAL

The CENTRAL CONTROLLER RV Control Module is an advanced power management system designed for caravans and recreational vehicles (RVs). This smart module provides a centralized, user-friendly solution for controlling essential electrical components, ensuring efficiency, safety, and convenience on the road.

With intuitive touch-panel operation and wireless connectivity, you can easily manage lighting, water pumps, power outputs, and monitoring sensors from one place. Additionally, the module is compatible with the Hi-Tech Connect App, available for Android and Apple devices, allowing you to monitor and control your RV's electrical system remotely.



1. Features and Functions

1.1 Lighting System

- Wireless switching using Hi-tech connect app. (See operation instructions)
- Supports up to 10 light points.
- Controlled using a touch panel.
- Overload protection via inbuilt 5A auto resettable fuse.

1.2 Water Pump Control

- Two pumps can be powered and controlled.
- Centralized touch panel operation.
- Protected by 10A fuses.

1.3 General Power Outputs

- 6 x 10A and 4 x 15A output channels.
- Suitable for appliances, auxiliary lighting, and charging devices.
- Protected by individual fuses.

1.4 Direct Power Distribution

- Three terminals, one supporting up to 30A and two supporting up to 20A.
- Designed for high-power devices and battery connections.

1.5 Temperature Monitoring

- Sensors monitor interior and exterior temperatures.
- Data available on the touch panel.

1.6 Shunt Sensor (Power Monitoring)

- Measures electrical current flow.
- Provides data on battery charging, power consumption, and system efficiency.

1.7 Water Sensors

- Detects water levels in fresh and grey water tanks.
- Prevents unexpected water outages.

1.8 Inverter/Charger Sensor

- Monitors inverter and charger status.
- Displays battery charging levels, AC output, and fault conditions.

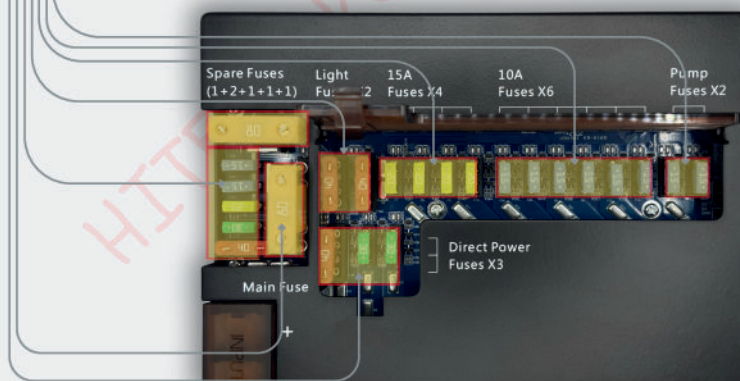


2. SAFETY INSTRUCTIONS

- Ensure all connections comply with the guidelines before applying power.
- Disconnect the power supply before performing any installation or maintenance.
- Use only appropriately rated fuses as specified.
- Avoid exposure to water or excessive moisture and dust to prevent electrical hazards.
- Do not overload circuits beyond their rated capacities.

FUSE RATINGS

FUSE TYPE	DESCRIPTION	MAX CURRENT (A)
Light Fuses × 2	Two fuses dedicated to lighting circuits.	30
Main Fuse	The primary fuse that protects the entire circuit.	60
Spare Fuses × 6	Extra fuses for replacement in case of fuse blowing. Amperage mentioned on the top of the fuse.	15, 20, 30, 40, 80
Direct Power Fuses × 3	Three fuses dedicated to direct power circuits.	40
15A Output Fuses × 4	Four fuses dedicated to 15A circuits.	15
10A Output Fuses × 6	Six fuses dedicated to 10A circuits.	10
Pump Fuses × 2	Two fuses dedicated to pump system.	10

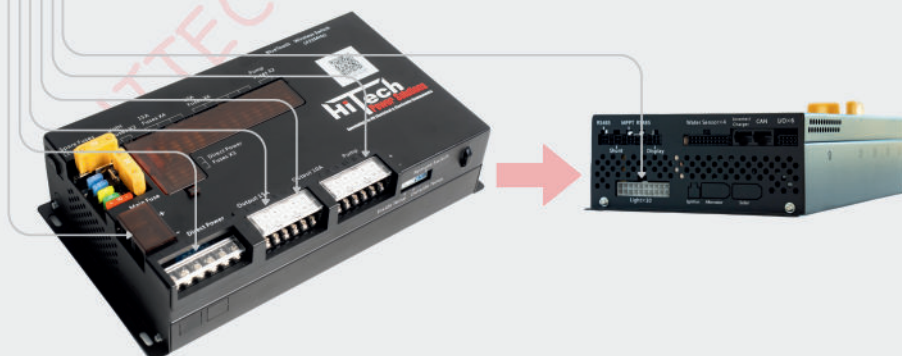


3. TECHNICAL SPECIFICATIONS

- Operating Voltage: 12V DC
- Direct Power Output Terminals: 3 (1 x 30A, 2 x 20A)
- General Power Outputs: 6 x 10A and 4 x 15A channels
- Pump Control: Supports 2 water pumps
- Lighting Control: 10 light points with a centralized touch panel and wireless controlled
- Temperature Monitoring: Inside and outside temperature sensors
- Current Monitoring: Shunt sensor for power consumption tracking
- Water Sensors: Monitors fresh and grey water levels
- Inverter/Charger Monitoring: Provides AC output, battery charging, and fault status
- Wide operating temperature range: -5°C to 55°C
- Optimized power consumption.

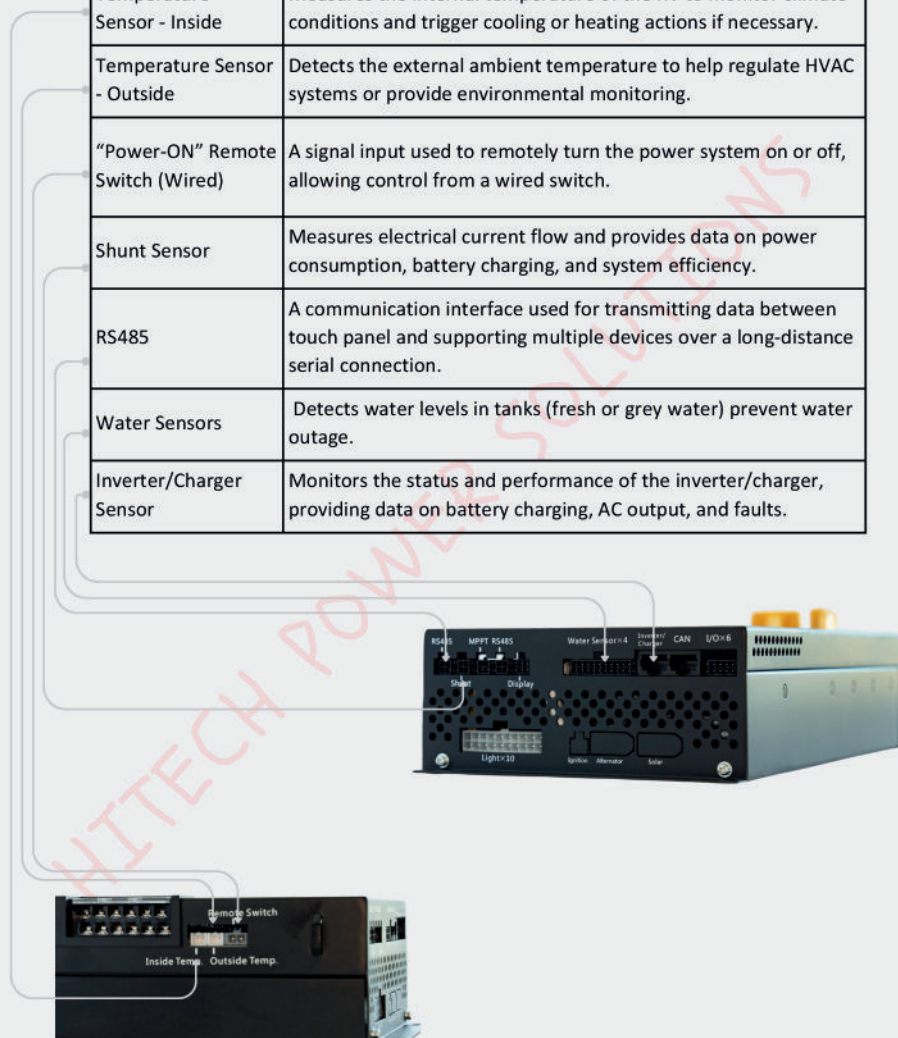
POWER INPUT/OUTPUT CHARACTERISTICS

PORT NAME	DESCRIPTION	RATINGS
Input Power	The main connection point where the power source connects to the system.	12V / 60A
Direct Power	Power outlet supplying direct power to critical components.	12V / 30A, 20A
15A Output	A circuit that provides 15A output to connected devices.	12V / 15A
10A Output	A circuit that provides 10A output to connected devices.	12V / 10A
Pump Output	Two dedicated power output to pump system.	12V / 10A
Lighting System	Ten dedicated light points can connect to system.	12V / 10A



SENSOR PORT TYPES

PORT NAME	DESCRIPTION
Temperature Sensor - Inside	Measures the internal temperature of the RV to monitor climate conditions and trigger cooling or heating actions if necessary.
Temperature Sensor - Outside	Detects the external ambient temperature to help regulate HVAC systems or provide environmental monitoring.
"Power-ON" Remote Switch (Wired)	A signal input used to remotely turn the power system on or off, allowing control from a wired switch.
Shunt Sensor	Measures electrical current flow and provides data on power consumption, battery charging, and system efficiency.
RS485	A communication interface used for transmitting data between touch panel and supporting multiple devices over a long-distance serial connection.
Water Sensors	Detects water levels in tanks (fresh or grey water) prevent water outage.
Inverter/Charger Sensor	Monitors the status and performance of the inverter/charger, providing data on battery charging, AC output, and faults.

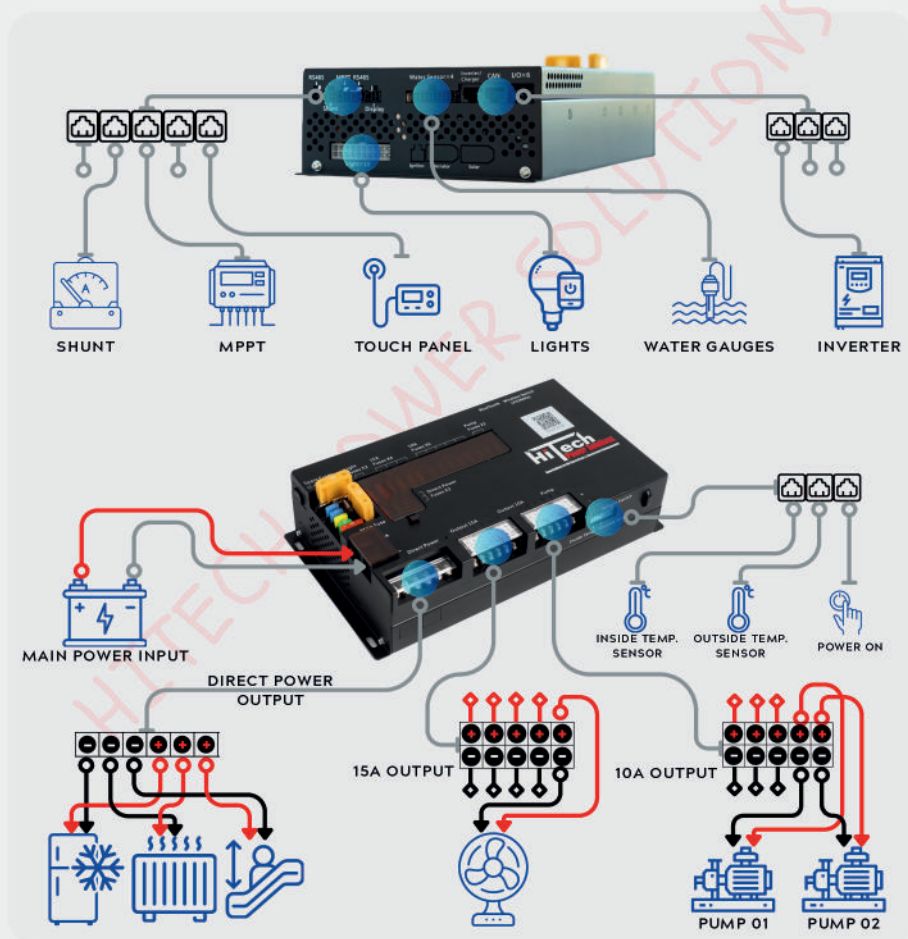


4. Installation Guide

Pre-Installation Checklist

- Ensure 12V power supply is available.
- Select a dry, well-ventilated area.
- Secure the module using mounting screws.
- Ensure easy access to wiring terminals.
- Gather required tools (screwdrivers, wiring crimpers, insulation tape).

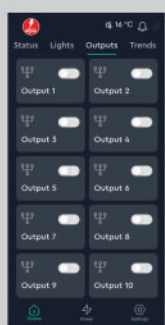
WIRING DIAGRAM



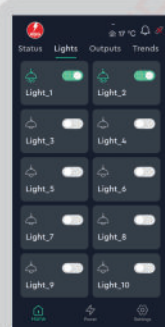
5. Mobile App Guide



PV Monitoring Pane



15A/10A Control Pane



Light Control Pane



INSIDE / OUTSIDE TEMPERATURE

Temperature of Inside and outside of the RV update here.

MODULE CONNECTIVITY

HT-2560 module can be disconnected here.

BATTERY STATUS

Battery voltage, current, power, Battery lasting time appear here.

CHARGING STATUS

Charging status will update here.

SYSTEM CONTROL

- **Remote Switch:** You can shut down whole system other than direct power output.
- **Sleep Mode:** You can turn off all lights and display.
- **Pump Control:** You can control pumps directly.

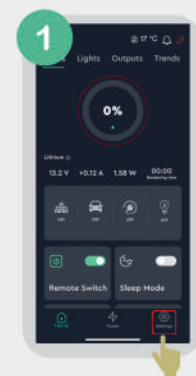
TANK STATUS

Tank status will update here.

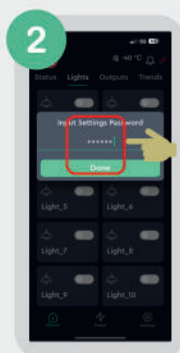
SYSTEM STATUS

Active status of the system outputs can be monitor here.

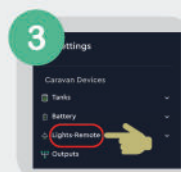
Mobile App Guide - Steps for Lights Renaming



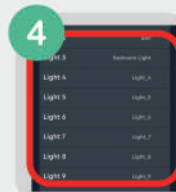
Step 01 : Goto settings using gear wheel icon.



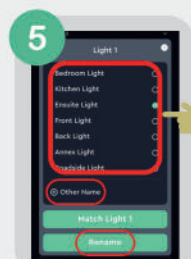
Step 02 : Enter password. Default PW - 123456



Step 04 : Select the Light that you need to rename.



Step 03 : Goto Lights remote section.



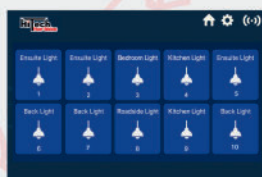
Step 05 : Choose suitable name for the selected light & press "RENAME" button.

Optional - If you need customized name, select "OTHER NAME" option and enter required name.

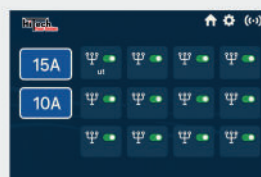
Touch Display Guide



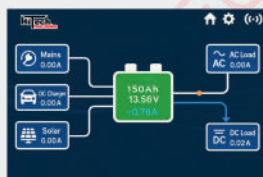
Main Screen : You can monitor the whole RV system in here.



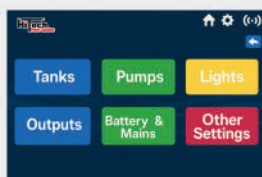
Lights Screen : You can control all lights here.



Output Screen : You can control all 10A / 15A outputs here.



Power Monitor Screen : You can monitor the power system in here.



Settings Screen : You can setup your RV system in here.

Notice: This manual can be upgrade with the device versions. Please refer Hitechpowersolutions.com.au website for updated manual.

6. Troubleshooting Guide

ISSUE	POSSIBLE CAUSE	SOLUTION
No power	Disconnected battery / Blown main fuse	Check wiring / Main fuse and reconnect
Lights not working	Blown fuse	Replace with correct fuse
Pumps not responding	Loose wiring	Inspect and secure connections
Incorrect temperature readings	Sensor malfunction	Replace sensor
Water level incorrect	Faulty water sensor	Clean or replace sensor

7. Maintenance and Care

- Inspect wiring and fuses regularly.
- Keep the module dry and away from extreme temperatures.
- Update firmware (if applicable) for optimal performance.
- Check sensor accuracy periodically.

8. Warranty and Support

- **Warranty Coverage:** Covers manufacturing defects for 12 months.
- **Exclusions:** Physical damage, misuse, and unauthorized modifications.
- **Customer Support:** Contact HiTech Power Solutions for technical assistance.

You can download the HiTech Connect Mobile App to connect with the HT-2560 module remotely.





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