

Intelligent Battery Charging



RV15
12 VOLT, 15 AMP



RV25
12 VOLT, 25 AMP



- **Before charging ensure you have read this instruction manual in full.**
- Explosive gases may escape from the battery during charging. Avoid flames and sparks. Ensure area is well ventilated.
- This appliance is designed for use in dry and protected environments. Do not expose to the elements i.e rain, dust, etc.
- For charging 12 volt batteries only.
- Disconnect from the 240Volt mains power supply before making connections and/or disconnecting clamps from the battery.
- RV15 and RV25 require an earthed 240Volt mains power supply.
- This appliance is not for use with non-rechargeable batteries.
- Never use this charger to charge a frozen battery.
- If the AC cord (240Volt) becomes damaged, it must be replaced by a qualified electrician.
- Corrosive gasses may escape during the charging process, ensure the charger is placed away from the battery and in a ventilated location.
- This appliance is intended for use by adults (18 years and over) and should not be operated by children.
- Always check the battery for manufacturers specifications on charge rates and voltage prior to charging.

Multistage Smart Charging

The RV range of battery chargers are fully automatic multistage smart chargers with a microprocessor controller.

The RV Smart charger is designed to prevent your battery from becoming damaged from overcharging or extreme temperature exposure. The charger is also designed to be left permanently/ indefinitely connected to your battery and will operate in a float charge maintenance mode, always ensuring that the connected battery is maintained at 100% charge.

The RV charger has the ability to be programmed to charge different battery types including GEL, AGM, Deep Cycle and Sealed Lead Acid batteries.

RV chargers have a unique inbuilt diagnosis program. On connection to the battery the charger will automatically diagnose the battery's condition and change its charge rate and charge stages accordingly. This function will optimise charging conditions and extend battery life.

Features

- Aluminium housing for efficient heat dissipation.
- LED display advising either charging voltage or an error code.
- Chemistry selectable for Sealed Lead Acid / GEL / AGM and Deep Cycle.
- Microprocessor electronic control.
- High frequency charging for efficiency.
- Polarity protection. Prevents output leads from sparking due to reverse connection or short circuit.
- Overheating protection. The internal cooling fan is Thermostatically controlled to suit the charger's operating temperature plus for additional safety, the unit will shut down if the operating temperature becomes unsafe.
- Over current protection. Charger will automatically reduce current for optimum battery condition.
- Indication of an error code on the LED display is accompanied with an audible warning tone to ensure the user is alerted to the error condition.

Model No	RV15	RV25
Type	7 Stage	7 Stage
Input	240VAC 50 Hz	240VAC 50 Hz
Output Voltage	12Volt DC	12Volt DC
Output Current	15 Amp	25 Amp
Minimum Start Volt	6.5 Volt	6.5 Volt
CHARGE CONTROL		
Desulphation	High Frequency Pulse Charge (DEPENDENT ON DIAGNOSIS)	
Soft Start	Yes	Yes
Bulk Charge (Maximum)	14.1V (GEL) 14.7V (SLA)	14.1V (GEL) 14.7V (SLA)
Absorption	Constant voltage with automatic Amperage control	Constant voltage with automatic Amperage control
Analysis	Automatically detects faulty batteries. Error code signifies fault.	
Recondition	Constant current automatically varied	
Float	13.7V	13.7V
BATTERY CAPACITY		
Storage	10 ~ 240Ah	10 ~ 240Ah
Starting	150 ~ 800CCA	150 ~ 800CCA

CHARGING and INSTALLATION INSTRUCTIONS

The RV Battery Charger has been designed primarily for charging batteries in Recreational Vehicles, Camper Trailers and Caravans, however it can be used in most Battery Charging applications. The RV range can either be permanently hard wired or used as a portable device.

When hard wiring the unit please take note of the following recommendations:

- Have installation performed by a qualified tradesperson only.
- Ensure charger is in a well ventilated location, away from rain, moisture, dust and contaminants.

When using a Portable Charger on a Battery not fitted to a Vehicle, please adhere to the following instructions.

- **Check fluid level in battery:**
Before attempting to charge the battery, always remove vent caps and check fluid level (not required for sealed lead acid and maintenance free batteries). Top up with distilled water if needed and replace vent caps.
- **Ensure 240Volt power supply is OFF:**
- **Connect black (negative) charging clamp to negative battery post.**
- **Connect red (positive) charging clamp to positive battery post.**
- **Turn on 240Volt power source**
- **Set battery type (Chemistry selection)**

When the charging process is completed, the charger will revert to a battery maintenance program. Both the CHARGED (Green LED) and the display (FULL) will indicate this stage has commenced. If the 240 Volt power source is left on, the charger will continue to maintain the battery at 100%.

When using a Portable Charger on a Battery fitted to a Vehicle, please adhere to the following instructions:

- **Check fluid level in battery:**
Before attempting to charge the battery, always remove vent caps and check fluid level (not required for sealed lead acid and maintenance free batteries). Top up with distilled water if needed and replace vent caps.
- **Position the 240V Power cable and charging cables away from shorting risks ie: bonnet, doors or fans.**
- **Connect red (positive) charge clamp to the positive terminal of the battery.**
- **Connect the black (negative) charge clamp to the negative terminal of the battery.**
- **Set battery type (Chemistry selection).**
- **Turn on the 240Volt power source.**

When the charging process is completed, the charger will revert to a battery maintenance program. Both the CHARGED (Green LED) and the display (FULL) will indicate this stage has commenced. If the 240 Volt power source is left on, the charger will continue to maintain the battery at 100%.

- **When disconnecting the charger ensure 240Volt mains supply is turned off and removed from power socket.**
- **Remove the black (negative) charger clamp from the battery terminal.**
- **Remove red (positive) charger clamp from battery terminal.**

OPERATIONAL CODES:

Light / Code	Fault / Condition	Solution
Yellow light FLASH	Charger is in standby condition	
Yellow light ON	Battery is charging	
Green light ON	Battery is fully charged and operating in float	
Red light FLASH	Charging abnormal	
FULL	Battery has completed the charge and is in maintenance mode	

ERROR CODES:

F01	Bad cells in battery	Replace battery
F02	Charge time exceeds 48 hours	Bad cells in battery, replace battery
F03	Reverse connection	Check clamps for correct polarity
F04	Overheating	Charger will start again when temperature drops, ensure vent is clear of obstructions
F05	Aging battery	Battery can no longer be efficiently charged, replace battery
F06	Incorrect voltage setting	Check the correct battery type is selected.
00	Standby, awaiting instructions / input	

RV15

12 VOLT, 15 AMP

BATTERY TYPE

Select Reg AGM, SLA, Deep Cycle and GEL

EASY CARRY HANDLE

MOUNTING BRACKETS

Permanently mount the charger anywhere



LED DISPLAY

Displays voltage and error code

12

VOLTAGE OUTPUT
12 Volt output



BATTERY CHEMISTRY SELECTABLE
Programmable to charge GEL, SLA and Deep Cycle Batteries

15

AMPERAGE
15 Amps

LED

LED DISPLAY
Shows voltage and error code

Set & Forget

SET AND FORGET
Simple Set and Forget technology with easy selectable switch

7

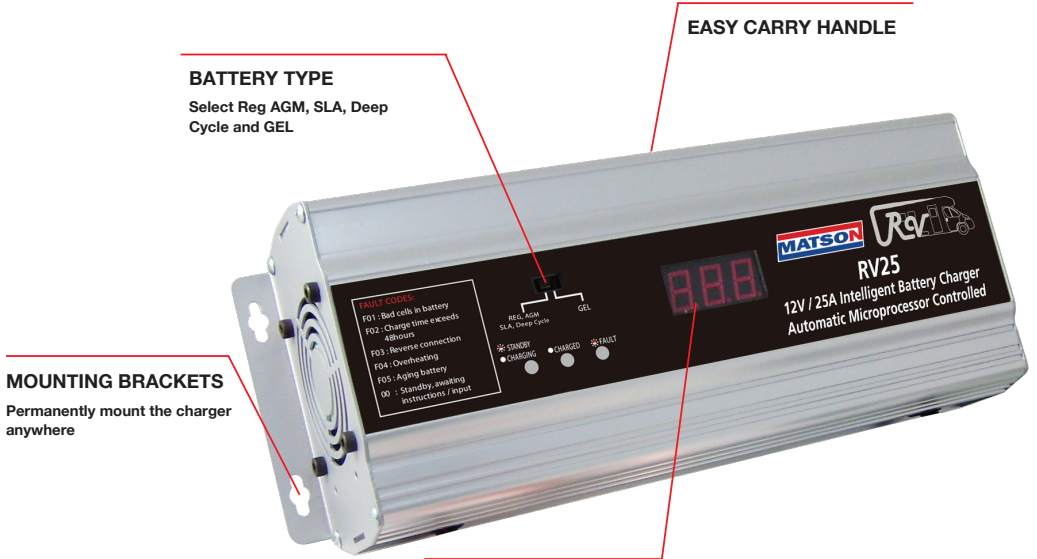
7 STAGE CHARGING
Smart charging technology to ensure an optimum battery charging process.



MOUNTING BRACKETS
Permanently mount the charger anywhere

RV25

12 VOLT, 25 AMP



EASY CARRY HANDLE

BATTERY TYPE

Select Reg AGM, SLA, Deep Cycle and GEL

MOUNTING BRACKETS

Permanently mount the charger anywhere

LED DISPLAY

Displays voltage and error code

12 **VOLTAGE OUTPUT**
12 Volt output

25 **AMPERAGE**
25 Amps

Set & Forget **SET AND FORGET**
Simple Set and Forget technology with easy selectable switch

MOUNTING BRACKETS
Permanently mount the charger anywhere

BATTERY CHEMISTRY SELECTABLE
Programmable to charge GEL, SLA and Deep Cycle Batteries

LED **LED DISPLAY**
Shows voltage and error code

7 **7 STAGE CHARGING**
Smart charging technology to ensure an optimum battery charging process.

WARRANTY CARD

(To be detached and returned with the unit to the below address)

Name: _____

Company Name: _____

Address: _____

Ph: _____ Fax: _____

E-mail: _____

Purchased From: _____

Date Purchased: _____

Product Purchased (Model No.): _____

This product is supplied with a 5 Year Warranty from date of purchase.

Please Note:

- **Should you experience any warranty related issues with this charger please call Matson Warranty Department on (02) 9833 3444 between the hours of 8am - 4:00pm Monday - Friday.**
- **Our Warranty Department will issue instructions so please contact them before returning the charger.**
- **Proof of Purchase will be required for all warranty claims.**



The Matson Group Pty Ltd

100 Links Road

St Marys NSW 2760 Australia

Ph: (02) 9833 3444 Fax: (02) 9833 3500

sales@matson.com.au

www.matson.com.au

