

CON0000007196



REVIVAL PRO

EV Charger Discharger 12V-32A

Customer Care No. - 9667 123 456 E-mail: customer.care@genusinnovation.com

	WARRANTY CARD
MODEL NO.	SERIAL NO.
DATE OF PURCHASE	DEALER NAME
CUSTOMER NAME	солтаст
ADDRESS	

Genus Innovation Ltd. Warrants to the original purchaser provided the product is still possession of and used by the original purchaser from the date of purchase.

• The warranty stands on all parts (except LED, Switches, External Body and Battery) for a period of 12 Months.

 The warranty will not apply to defects arising in company's opinion by reasons of accident, abuse, misuse, neglect, improper installation (if not undertaken by the company or its representative), fire, flood or other act of GOD any other natural calamities. Any other unauthorized repairs done or carried out will have to be borne by the purchaser. The problem of fuse & MOV will not be included in the warranty of the product. The services given for the same will be a paid service.

• The company in no way will be held liable for any loss or injury or damage caused to any form of life for any reason whatsoever

· The warranty will not apply if any original seal are found broken or tampered.

LIMITED WARRANTY STATEMENT

· Genus Innovation Ltd., represents and warrants that the Charger is free from defects in material and workmanship.

• The warranty of the PRODUCT extends for a period of 12 months commencing from the date of installation or 14 months from the date of manufacturing whichever is less.

 During the warranty period Genus Innovation Ltd. or its authorized service network will repair or replace the PRODUCT or any relevant part (Except LCD/LED's, Switches and External Body) thereof in the event found to be defective. The repaired PRODUCT or the product / part provided as a replacement for a defective PRODUCT/ part shall be free from defects. The END USER/Consumer/Purchaser of the PRODUCT of his/her assignee ("CONSUMER") shall not be charged (whether for parts, labour or otherwise) for the repair or replacement of the defective product during the warranty period. All parts/boards or equipments shall become the property of Genus Innovation Ltd.

 The warranty in respect of a repaired or replaced PRODUCT/part shall extend for the remaining warranty period of the repaired PRODUCT replacement thereof to the CONSUMER.

The CONSUMER shall have no coverage or benefits under this warranty in the event that any of the following conditions are applicable: a) The PRODUCT has been subject to abnormal use or conditions, improper storage, exposure to excessive moisture or dampness, exposure to excessive temperature (beyond specification), unauthorized modification, unauthorized repair (including but not limited to the use of unauthorized spare parts), abuse accident, acts of God, spills of food or liquids, improper installation and breakage or damage b) The CONSUMER has not notified the defect of the PRODUCT to Genus Innovation Ltd, during the applicable warranty period. c) The PRODUCT serial number code or the accessory date code has been removed, defaced or altered

d) The PRODUCT has not been with or connected to an accessory:

Not supplied by Genus Innovation Ltd or its affiliates.

-Not fit for use with the PRODUCT

-Used otherwise than is the manner intended.

e) All plastic surfaces and all other externally exposed parts that are scratched, or damages due to abnormal customer use.

In order to the derive benefit of this warranty in respect of any defects in the PRODUCT, the CONSUMER shall ship the PRODUCT or part thereof at its cost to the authorized service center of Genus Innovation Ltd. The Genus Innovation Ltd. shall bear the cost of shipping the PRODUCT or part there of back to the CONSUMER after the completion of the service under this limited warranty.

NO OTHER EXPRESS WARRANTY IS APPLICABLE TO THE PRODUCT. THE DURATION OF ANY IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTY OF MARKETABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR USE IS LIMITED TO THE DURATION OF THE EXPRESS WARRANTY HEREIN GENUS INNOVATION LTD. SHALL NOT BE LIABLE FOR THE LOSS OF USE OF THE PRODUCT INCONVENIENCE LOSS OR ANY OTHER CONDQUENTIAL DAMAGE ARISING OUT OF THE USE OF OR INABILITY OF USE OF THIS PRODUCT OR FOR THE BREACH OF ANY EXPRESS OR IMPLIED WARRANTY INCLUDING THE IMPLIED WARRANTY OF MARKETABILITY OR MERCHANTABILITY OR FITNESS APPLICABLE TO THIS PRODUCT.

It's a hereby expressly clarified that all warranties (express of implied) in respect of the PRODUCT are provided by the Genus Innovation Ltd. All disputes are subject to jurisdiction of JAIPUR only

REVIVAL PRO

This manual contains important safety and operation instruction for standard Genus Revival Pro. Please read this information entirely before using your Genus Revival Pro EV Charger Discharger for technical support, please contact the manufacturer of your battery, as their versions of this Revival Pro may require special instruction.

KNOWING YOUR REVIVAL PRO



accordance with all local codes and ordinances. A grounded outlet is required to reduce risk of electric shock. Do not use ground adapters or modify plug. Do not touch uninsulated portions of output connector or uninsulated battery terminals disconnect the AC supply before making or breaking the connection to battery. Do not open or disassemble charger.

Do not operate this Revival Pro if the AC supply cord is damage of if the charger has received a sharp blow been dropped, or is damaged in any way-refer all repair work to the manufacturer, or qualified person. This Revival Pro is not intended for use by person. (including children) with reduced physical, sensory or mental capabilities ,or lack of experience and knowledge on electrical systems and battery charging & discharging, unless they have been given supervision or instruction concerning use of the charger by a person responsible for their safety. Children should be supervised to ensure that they do not play expose Revival Pro to water spray when Charging & Discharging the battery.

3.INSTALLATION AND SAFETY INSTRUCTIONS

Genus Revival Pro EV Charger Discharger has been designed to provide safety and reliability it is necessary to observe the following precaution in order to avoid damage to person and to the battery Revival Pro.

Read the installation instruction contained, in this manual carefully for further information put the manual in a proper place.

- Ensure all ventilation ports are not obstructed, to avoid the overheating . Do not put the Revival Pro near heat \succ sources. make sure that free space around the Revival Pro is sufficient to provide adequate ventilation and an easy access to cable sockets.
- Protect the Revival Pro from ingress of water. Do not pour liquids inside the case.
- Verify that the available supply voltage corresponds to the voltage that is stated on the Revival Pro name plate in case of doubt, consult a retailer or local electric supply authority.
- To avoid damaging the power cord, do not put anything on it or place it where it will be walked on. If the cord \geq becomes damaged or frayed, replace it immediately.
- If you are using an extension cord or power strip, make sure that the total of the amperes required by all the equipment on the extension is less than the extension rating.
- disconnect the mains supply before connecting or disconnecting the link to the battery.
- \succ Warning : explosive gas-avoid flames and sparks, the battery must be positioned in a correctly cooled place.
- Avoid recharging of non-rechargeable battery.
- \geq Verify that the nominal voltage of the battery to be recharged corresponds to the voltage states on the Revival Pro name plate.
- Do not try service the battery charger your self, opening the cover may expose you to shocks or other hazards.
- \geq If the Revival Pro do not work correctly or if it has been damaged unplug it immediately from the supply socket and from the battery socket and contact a retailer / service center.

4. OPERATING PRINCIPLE

This SMPS charger gives a good performance for the minimum cost and physical dimension using switches more faster and powerful (modern technology)

The main advantage of this solution are.

 Low power consumption High efficiency DOD based charging Quick Revival Pro RESISTIVE LOAD RELAY CHANGE OVER **BASIC BLOCK DAIGRAM** POWER SWITCH EMI FILTER RECTIFIER RECTIFIER TRANSFORMER LC FILTER \odot INPUT 230V 12V Battery FEEDBACK MICROCONTROLLER ISOLATION **4.1 PRODUCT FEATURES** 三分 ∕₽∖ ? LCD 🖨 -576-DEEP DISCHARGE BATTERY WAKE-UP INBUILT BATTERY DUAL DISPLAY PORTABLE OVER CHARGE WiFi (Enable) SMART CHARG Mobile App REVIVAL MODE **OVER VOLTAGE** & DISCHARGIN PROTECTION

5.1 BATTERY CHARGING PROFILE

Bulk : In this stage , the charger will charge the battery with a constant Current rating until the battery voltage reaches 15+/_0.2v .Once this voltage is reached the charger will go the next stage

Absorption : In this stage the battery will be charged with a constant Voltage as current start to decrease and maintain voltage at 16.5+/-0.5V

Equalization : In this stage charger will charge the battery with CV mode operation and start to decrease current subject to a maximum voltage of 16.5+/-0.5V

Note: Charging current depends on current setting knob position and condition of battery

In this stage Revival Pro discharged the lead acid battery @10.5+/-0.2V

Installing your Revival Pro

5.2 DISCHARGING PROFILE

6.1 DC Connection :

First connect the Revival Pro output cable to lead acid battery terminal for charging the battery. The reverse polarity protection will ensure that battery or Revival Pro will not be damaged.

A. Before Revival Pro connection shown in below figure

B. After Revival Pro connection with battery shown in below Figure





1. WARNING

Use Revival Pro only to Charge & Discharge lead acid battery other usage may cause injury and damage. Lead acid batteries may generate explosive hydrogen gas during normal operation and can produce sparks, flames, and smoke so keep explosive materials away from batteries and provide adequate ventilation during charging. Study all battery manufactures specific precaution (e.g. maximum EV charging & discharging rates and if cell caps should be removed while charging & Discharging).

2. DANGER

Risk of electric shock connect Revival Pro power cord to an outlet that has been properly installed and grounded in



6.2 AC input & Grounding : Connect 6 A Wall Socket with AC power supply and proper grounding to be done. Make sure that the pin on the plug of the extension cord are the same number size, and shape as that of the plug in the Revival Pro. do not operate the battery charger with a damaged cord or plug.

This Revival Pro must be grounded to reduce the risk of electric shock. it is equipment with an electric cord having an equipment - grounding conductor and a ground -type plug. AC Plug connect with 6 A Socket only

The plug must be plugged into an appropriate outlet that is properly installed and grounded in accordance. This battery Revival Pro is equipped with a grounding plug as illustrated in the above Figure. If a proper grounded outlet is not available contact qualified electrician to make the ground connection properly.

A. Appearance after Revival Pro connection shown in below Figure

Connect charger AC power cord to the wall socket. The mains ON LED will indicate that the mains cable is connected to the wall socket.



Please refer the LED LCD indication below to understand the Revival Pro EV charger discharger working



Specifications

	Functional Specifications GGE312		
Project Code			
Project's Description	Revival Pro EV Charger Discharger		
Sr. No	Parameters	Specification	
	AC Input		
1	AC Input High Voltage Cut	280 V ± 10V	
2	AC Input High Voltage Recovery	270 V ± 10V	
3	AC Input Nominal working Range	130Vac - 280Vac ± 10Vac	
4	AC Input Low Voltage Cut	$130 V \pm 10V$	
5	AC Input Low Voltage Recovery	$140 V \pm 10V$	
6	AC Input frequency Range	47 - 53 Hz	
7	AC Input Current	4.5A ± 1A RMS	
	Charger Mode		
8	Output load	12V Lead Acid Battery	
9	Battery Boost Voltage	16.75V Max. (*Depends on battery condition)	
10	Battery Charging Current	4A to 20A	
11	Battery Charging Start	Deep Discharge	
	Dis-Charger Mode		
12	Battery Low Cut	10.5 ± 0.2V	
13	Battery Discharging Current @ 11.5V	33 ± 2A	
	Operation		
14	System Selection Switch	Service/ OFF/ Customer Mode Selection Switch	
15	Current selection	4A to 20A	



Genus Innovation Limited (A Kailash Group Company)

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