

USER'S MANUAL

MULTIPLE LEAD ACID BATTERY CHARGER

HFC 5-15

Apple Energy Private Limited

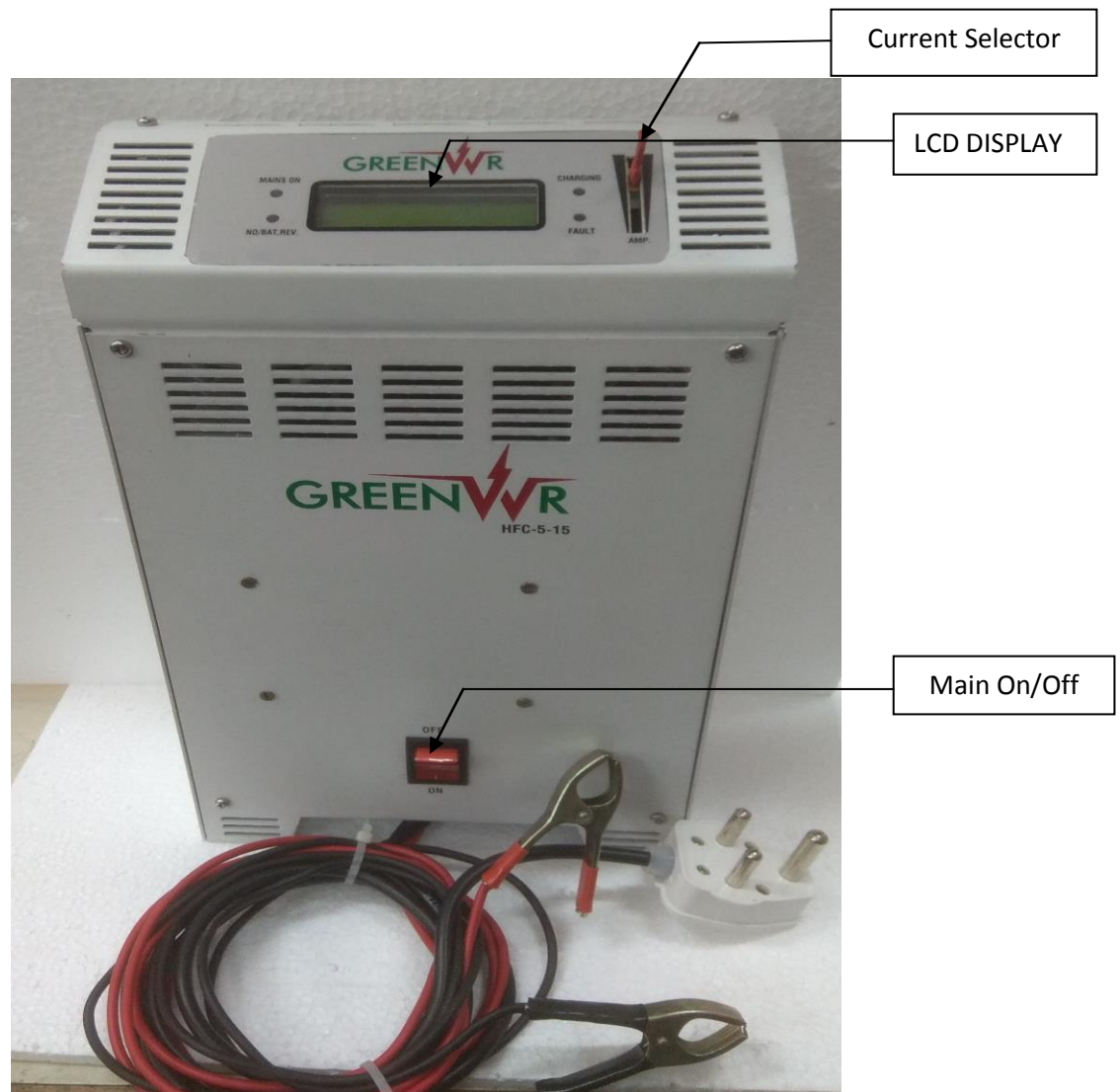
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SELLER'S STAMP	DATE OF SALE:	
SOLD BY:	SERIAL NUMBER:	
PURCHASER:	CONTACT NO.	
	INVOICE NO:	



THIS IS AN UNIQUE BATTERY CHARGER WITH MOST ADVANCED SMPS AND SOFTWARE BASED TECHNOLOGY. IT IS CAPABLE OF CHARGING FROM SINGLE 12 VOLT TO 5 NOS 12 V BATTERIES WITH VARIOUS CHARGING CURRENT BETWEEN 0.5A TO 15A. IT CAN DELIVER CONSTANT OUTPUT CURRENT AT SELECTED LEVEL FOR PROPER CHARGING OF LEAD ACID BATTERY. VERY LOW RIPPLE DC OUTPUT CURRENT AND HIGH EFFICIENCT ARE THE KEY FEATURES.

IT IS ELECTRICALLY SHOCK-PROOF AT THE BATTERY END AND GIVES TOTAL PROTECTION AGAINST OUTPUT OVERVOLTAGE. IT IS SMALL, LIGHTWEIGHT AND PORTABLE IN SIZE.

IMPORTANT SAFETY INSTRUCTIONS (DO'S AND DON'TS):

BEFORE PROCEEDING FURTHER KINDLY GO THROUGH THE SAFETY INSTRUCTIONS

1. CONNECT TO MAINS SUPPLY & CONNECT THE OUTPUT WIRES TO THE BATTERY AND THEN POWER ON THE INPUT SWITCH. INPUT POWER WIRING SHALL BE FOR MINIMUM 16 AMP.
2. THE BATTERY BANK SHALL BE PROPERLY INTERCONNECTED WITH RATED WIRE & THE TERMINAL CONNECTION POINTS SHALL BE CLEAN.
3. BATTERY BANK VOLTAGE SHALL BE WITHIN 8 V TO 82.5 V
4. DO NOT INSTALL THIS CHARGER ON OR NEAR FLAMMABLE MATERIALS (PLYWOOD, CHEMICALS AND GASOLINE ETC.).
5. PLACE THE CHARGER ON ITS WALL HANGING ARRANGEMENT OR ON THE FOOT REST. KEEPING UPWARD DIRECTION. DO NOT KEEP IT HORIZONTALY.

TAKE IT TO OUR SERVICE CENTRE IN CASE OF ANY MALFUNCTION AND OR IF ANY SERVICE IS REQUIRED. OPENING BY UNQUALIFIED PERSONNEL CAN RESULT ELECTRIC SHOCK OR FIRE HAZARD. OPENING OF THE UNIT EXCEPT BY OTHER THAN APPLE ENERGY ENGINEER WILL LEAD TO CANCELLATION OF THE GUARANTEE OF THE PRODUCT.

TROUBLE SHOOTING

(IF THE CHARGER IS NOT CHARGING THE BATTERY BANK FOLLOW THE LED INDICATIONS TO FIND THE ROOT CAUSE AND RECTIFY)

SYMPTOMS	PROBLEM	REMEDY
MAINS ON LED OFF	<ol style="list-style-type: none"> 1. WIRING PROBLEM OR INPUT SWITCH OFF. 2. LOOSE CONNECTION / NO VOLTAGE AT PLUG POINT. 3. INPUT FUSE BLOWN 	<ol style="list-style-type: none"> 1. CHECK WIRING & ON INPUT SWITCH 2. CHECK INPUT VOLTAGE AND CHECK ALL CONNECTION. 3. CHECK AC FUSE
NO / REV. BATTERY GLOWING	BATTERY CONNECTION WRONG	CHECK THE BATTERY BANK VOLTAGE SHALL BE > 8 V ALSO CHECK BATTERY BANK WIRING
CHARGING ON	CHARGING PROCESS IS ON. IN CASE IT GETS OFF PLEASE CHECK LCD DISPLAY	ACT AS PER LCD DISPLAY GUIDANCE
CHARGER FAULT LED GLOWING	INPUT SUPPLY VOLTAGE OUT OF RANGE OR INTERNAL TRIP	MAKE THE INPUT SWITCH OFF AND ON AFTER A DELAY OF FEW SECONDS

Technical Specification:

Product:		Intelligent Lead Acid Battery Charger
Model:		HFC 5-15
Technology:		State of Art SMPS based technology
INPUT:	AC Voltage:	160V ~ 265 V Single Phase (2 wire + Earth)
	Frequency:	50 ± 10%
OUTPUT:	Charging Mode:	Constant Current (CC)
	DC Voltage:	Self selected
	Charging Current:	1 – 15 AMPS Manually Adjustable
	Output Voltage Ripple:	<3% without Battery < 1% with Battery
	Efficiency:	>90% (At Full Load)
Battery Selection:		Auto selection for 1-5 units 12V Lead Acid Battery having capacity from 20AH to 200AH. To be connected in series. For mixed capacity batch, suitable current to match the lower capacity battery should be selected For higher capacity batteries, up to 5 strings paralleling of the Green power (HFC 5-15) is permitted to enhance the charging current up to 75A.
Current Selection:		Manual current selection through lever for seamless increase or decrease of current.
Charging Termination:		Auto charge termination available for any numbers of batteries after Full Charge Voltage obtained.
PROTECTIONS :	Mains U-V / O-V	Mains U-V/O-V Mains Under or Over Voltage
	No/Rev Bat:	Battery Not Connected / Battery Reverse Connected
	Output S/C:	Output Short Circuited.
LCD DISPLAY	Bat. Current	DC Output current in Amps
	Bat. Voltage	DC Output voltage in Volts
	Charging AH	Ampere Hour input since switch on.
	Nos. of Bat.	Numbers of battery units connected to the charger.
Chg. Time		Charging Time since switch on.
Cooling:		Forced Air Cooling with Fan
Temperature:		0 – 55 °C
Humidity:		0-95% RH (Non-condensing)
Dimensions (H x W x D):		390 x 210 x 93 (in mm) ± 3 mm
Weight:		8 Kgs ± 5%
Colour:		Industry Safe Colours: Gray

WARRANTY: 12 MONTHS FROM THE DATE OF SALE

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