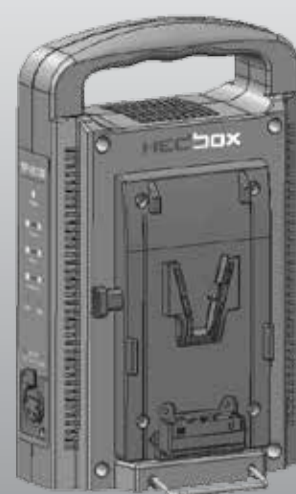


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www.hed-box.com

## Professional Dual Simultaneous UPS Battery Charger

RP-DC100



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User Manual

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Thank you for your purchase of the Professional Dual Simultaneous Power Bank Battery Charger RP-DC100. This intelligent charger for Digital Camera and Camcorder Batteries was designed with advanced power charging technology, allowing you to charge your Professional Batteries at Studio place, or at the home. The Charger is compatible with Li-Ion Rechargeable Batteries that run on power voltage of 14.4V to 14.8V. Please read these operating instructions carefully before operating use this unit to power up Professional Camcorder or to Charge Battery Pack.

### Product Features

1. Charge a Professional Battery Pack that run on 14.4V to 14.8V
2. Supply Power for Professional Studio Cameras, LED Light, Field Recorders etc.
4. LED Displays the battery ON, Charging Status, Power Status and BackUp Power Supply Status, with red, blue and green colors
5. Provide constant Output voltage of: 16.5V / 4.5A ; 75W
6. Worldwide use with input between 100-240V;
7. With advanced MCU Micro-Computer Chip control, charger fully control the charging process of the Li-Ion Professional Battery.
8. With CH1 or CH2 Battery attached to the unit, on DC Out provide Power Bank mod BackUp Power Supply-UPS (Uninterruptible power supply) in case of AC failure.
9. 100,000 level of Anti-Static design, High Temperature and Fire-Proof makes it safer.
10. Passed MBTR 5000H test and own its patent with more reliable quality warranty;
11. Safety protection:
  - Over temperature protection reaches at 85°C,
  - Over voltage protection reaches at 19.5V,
  - Over current protection reaches at 6.5A,
 and have Short circuit protection & Charging time protection.

Page 1

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### Notice

Please check that the components size and voltages will be compatible according to your Camcorder DC Voltage Input or Battery Pack Charging Voltage and Current. Please use the manual instruction of the Camcorder or Battery Pack, and read this manual carefully before using the unit with this AC Adaptor / Charger. We are not responsible for any damage caused by incorrect use or operation.

### Caution

1. This device is for indoor use only, don't put or use it in high temperature and high moisture environment;
2. It's a common phenomenon for the unit to feel hot when using;
3. Avoid falling and bumping otherwise the electrical components will be damaged;
4. Don't try to disassemble or open the cover under any circumstance in order to avoid danger.

### Specification

AC Input :	AC 100-240V / 50-60Hz
DC Out :	16.5V / 4.5A ; 75W
Charger Out :	Single Battery Charging Mod: CH1 (L) or CH2 (R) : 16.8V / 3.0A
	Dual Battery Charging Mod: CH1 (L) and CH2 (R): 16.8V / 2.0A
Output Connection :	4 Pin XLR (Female)
Operating Temp.:	-10 to 40 C
Dimensions:	225 x 141 x 100mm
Weight:	1200g

Page 6

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### DC Out Powering & Power Bank Mod:

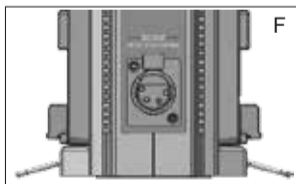
1. To Power any Pro Camcorder or any other unit with constant power, on DC out, use the supplied **RPC-DC4X4** cable with 4-pin XLR (Male to Female) Connector. Connect the cable to the Charger DC 4Pin Power Out (picture F.)

2. When a **RPC-DC4X4** Cable is plugged into the 4-pin XLR auxiliary Power output, and the Main Power switch off the Charger RP-DC100 is **ON**, charging process of the Battery will be suspended. The "Charging" LED will go OFF and "Battery" LED indicator (if the battery is on the charger) will illuminate BLUE. In this case output power is 16.5V 4.5A/ 75W.

3. If you turn **OFF** the main Power Switch on the Charger or unexpected main electric power failure occur (AC input is cut off), Charger **RP-DC100** with the inserted Battery, will automatically go to the **UPS BACK UP POWER MODE**. In this case the RP-DC100 provide power to the DC Out, from the battery that is attached to the charger, the "Adaptor UPS" LED indicator illuminate GREEN, indicate that the power from the Battery is providing to the DC Out.

4. When two Batteries are attached to the charger at the same time, the UPS Powering from the battery to the DC Out is made by priority.

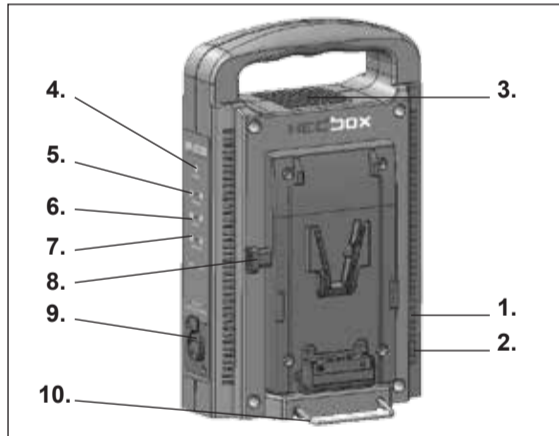
5. Once the cable is unplugged, the charger will continue the previous charging sequence and from the same point of interruption.



Page 5

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### Overview



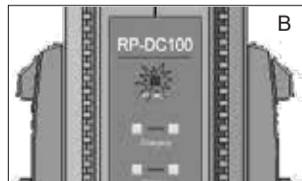
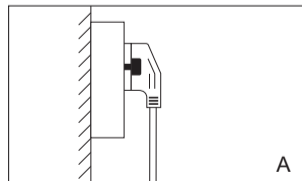
### Product Components:

1. Main Power switch ON/OFF
2. Power Socket 100V - 240V / 50-60Hz
3. Fan Cooler ( Provide cooling of the unit)
4. Power LED Indicator (Red Color status charger unit is ON)
5. CH1 and CH2 Battery Charging LED Status
6. Battery connected on charger LED Status
7. UPS (Uninterruptible power supply) BackUp Power Supply LED status
8. Battery release pushup button
9. 4-Pin XLR (Female) DC Output 16.5V / 4.5A 75W
10. Spider stability support legs

Page 2

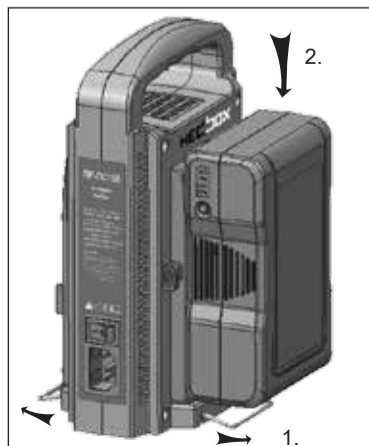
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### Operation Instruction:



1. Plug the Power Cord on the AC power (picture A).
2. Turn ON the AC Power Switch.
3. The Power LED indicator will illuminate Red during AC power. (picture B).

### Battery Installation on Charger:



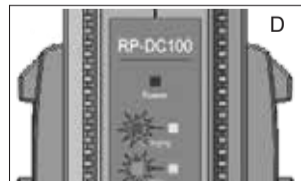
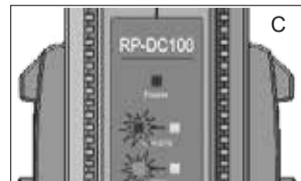
1. On the bottom of the Charger use and spread wide the Spider Stability Support legs, this will ensure that the charger will have extra stability when the Battery is attached to the main body of the RP-DC100 Charger.

2. Use Professional V-lock or Gold Mount Battery, insert battery in to the V-lock or Gold Mount plate. Observe the Charger LED "Battery" indicator, it will illuminate BLUE, if the battery is attached appropriate.

Page 3

# HECBOX

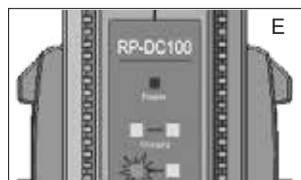
### Charging Battery Pack:



1. When you insert Battery to the Charger, LED "Battery" indicator illuminate BLUE, indicate that the battery is ready for charging. The Charger have two charging plates, that on the LED Indication screen is indicated as CH1 (L) & CH2 (R). After insertion one (1) Battery on charger, charging process start automatically with 3A±400mAh (Single Mod). If you insert second Battery charging process will switch to Dual Mod 2A±400mAh (Simultaneous Charging). Charger LED "Charging" indicator illuminate RED indicate that the charging process of the Battery is activate. (picture C.)

2. If the SOC≥85% ( State Of Charging) Charger LED "Charging" indicator illuminate GREEN, indicate that the charging process is on the finishing state. (picture D.)

3. When the charging process is finish and battery is fully charged, Charger LED "Charging" indicator will go OFF, indicate that the charging process is done and the battery is full and ready for use. Remove the Battery from the charging Plate. (picture E.)



Page 4