



DCX2 1600

Quick Start Guide



For the full Instruction Manual,
scan or visit HitecRCD.com

WARNING

Congratulations on purchasing Hitec's DCX2 1600 Multi-function Smart Charger. This Quick Start Guide contains an abbreviated summary of the safety and operating procedures of the DCX2 1600 Charger. Please scan the QR code on the front cover and read the entire operating manual before using the DCX2 1600 Charger. If you are unsure of its proper operation after reading the manual, please contact service@hitecrod.com or seek advice from an experienced hobbyist or someone familiar with proper battery charging procedures.



THE CHARGING AND DISCHARGING OF RC HOBBY BATTERIES CAN BE DANGEROUS. FAILURE TO FOLLOW THESE EXPLICIT WARNINGS CAN RESULT IN PROPERTY DAMAGE AND/OR LOSS OF LIFE.

NEVER LEAVE YOUR CHARGER UNATTENDED WHILE IN OPERATION.

NEVER CHARGE ON OR AROUND COMBUSTIBLE MATERIALS.

NEVER CHARGE A DAMAGED BATTERY PACK.

LOW COST, NO-NAME BATTERY PACKS POSE THE MOST DANGER. WE RECOMMEND YOU ONLY USE BATTERY PACKS THAT ARE SOLD AND WARRANTIED BY A REPUTABLE COMPANY.

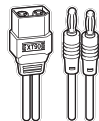
IT IS HIGHLY RECOMMENDED THAT YOU UTILIZE A SAFETY DEVICE SUCH AS A STEEL CASE OR LiPo SACK WHILE CHARGING LITHIUM CHEMISTRY BATTERIES.

IT IS HIGHLY RECOMMENDED THAT YOU KEEP AN OPERABLE "CLASS A" FIRE EXTINGUISHER IN THE CHARGING AREA.

PACKAGING CONTENTS

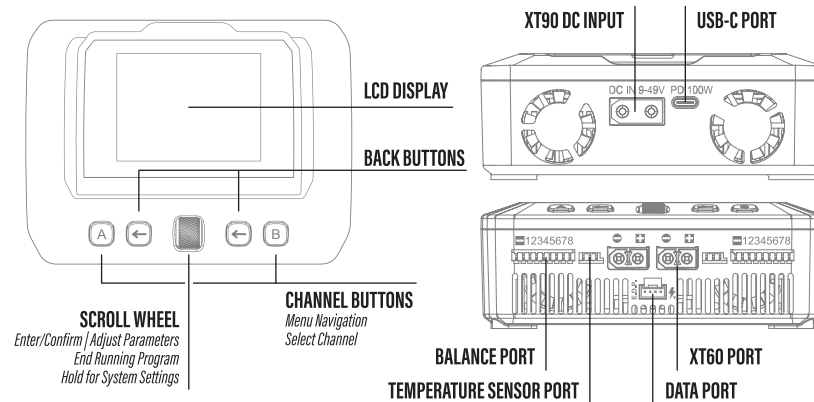


DCX2 1600 Charger



XT90 DC Cord w/ 4mm Bullets

PRODUCT FEATURES



STANDARD BATTERY PARAMETERS

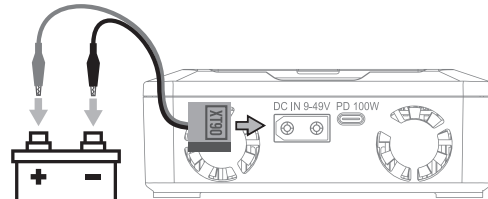
	LiPo	Li-Ion	LiFe	LiHV	NiMH	NiCd	Pb
Nominal Voltage	3.7V/cell	3.6V/cell	3.3V/cell	3.8V/cell	1.2V/cell	1.2V/cell	2.0V/cell
Max Charge Voltage	4.15-4.25V per cell	4.05-4.25V per cell	3.58-3.70V per cell	4.25-4.50V per cell	—	—	2.30-2.75V per cell
Storage Voltage	3.75-3.90V per cell	3.70-3.85V per cell	3.25-3.40V per cell	3.85-3.95V per cell	—	—	—
Fast Charge Current	≤ 1C	≤ 1C	≤ 1C	≤ 1C	≤ 1C	≤ 1C	≤ 0.4C
Min. Discharge Voltage	3.0-3.4V per cell	2.6-3.7V per cell	2.6-3.0V per cell	3.1-3.5V per cell	0.6-1.0V per cell	0.6-1.0V per cell	1.8-2.0V per cell

PRODUCT SPECIFICATIONS

INPUT VOLTAGE	DC	9-49V
INPUT CURRENT	DC	Single Channel: 32A ± 10% Dual Channels: 55A ± 10%
BATTERY TYPE	LiPo / LiFe / Li-ion / LiHV	1-8 cells
	NiMH / NiCd	1-20 cells
	Pb	3 / 6 / 12 cells
WORKING MODES	LiPo / LiFe / Li-ion / LiHV	Charge / Balance / Discharge / Parallel / Reverse / Storage
	NiMH / NiCd	Charge / Re-Peak / C-D Cycle / D-C Cycle / Discharge / Reverse
	Pb	Normal / AGM Charge / Cold / Discharge / Reverse
CHARGE CURRENT	1S: LiPo / LiFe / Li-ion / LiHV NiMH / NiCd	0.1-0.5A (± 0.1A) 0.6-10A (± 10%)
	2-8S: LiPo / LiFe / Li-ion / LiHV	0.1-0.5A (± 0.1A) 0.6-32A (± 10%)
	Pb	0.1-0.5A (± 0.1A) 0.6-15A (± 10%)
DISCHARGE CURRENT	—	0.1A (± 0.05A) 0.2-4.0A (± 10%)
BALANCE CURRENT	LiPo / LiFe / Li-ion / LiHV	2.1A MAX
CHARGING POWER	—	Single Channel: 1100W (± 10%) Dual Channel: 1600W (± 10%)
TYPE-C USB PORT	—	PD3.0 100W 5 / 9 / 12 / 15V @ 3A; 20V @ 5A
DISCHARGE POWER	—	Main Port: 45W (± 10%) Balance Port: 20W MAX (LiPo/8S)
PARALLEL CHARGE CURRENT	2-8S: LiPo / LiFe / Li-ion / LiHV	33-50A
REVERSE DISCHARGE POWER	LiPo / LiFe / Li-ion / LiHV: 2-8S NiMH / NiCd: 8-20S Pb: 3/6/12S	1100W (± 10%)
EXTERNAL DISCHARGE	CHANNEL A	Current: 0.5-40A
EXT. TEMPERATURE SENSOR	—	40-65°C / Default: 50°C
DC POWER SUPPLY	VOLTAGE	5-36V (±0.5V) Default: 12V
	CURRENT	0.3-32A / Default: 20A 0.3-2.0A (±0.2A) 2.1-32A (±10%)
	POWER	1100W (± 15%)
WORKING ENVIRONMENT	—	32-104°F (0-40°C) 5-75% Humidity
STORAGE ENVIRONMENT	—	14-158°F (-10-70°C) 5-75% Humidity
DIMENSIONS	—	5.16 x 3.86 x 1.83 in
WEIGHT	—	1.168 lbs

POWER & BATTERY CONNECTION

1 Connect to a DC power source.



12V DC Battery
12V DC battery or 9-49V DC power supply

2 Connect the battery.



ALWAYS CONNECT THE CHARGE LEADS TO THE CHARGER FIRST, THEN THE BATTERY.

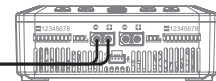
A) LiPo Battery Connection with Balance Connector

For safety reasons, it is highly recommended to charge Lithium batteries (LiPo, Li-ion, LiFe and LiHV) using Balance CHG mode unless the battery comes without a balance connector.

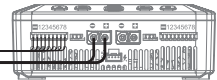
The balance connector must be connected to the charger with the black wire aligned with the negative marking. Ensure correct polarity!

B) NiMH/NiCd or Pb Battery Connection

NiMH Battery



LiPo Battery



CHARGING SETUP

Charge Setting	
Battery Type	LiPo
Battery Cell	6S(22.5V)
Task	Bal. CHG
Condition	4.20V
Cycle	0
Charge Current	12.0A

ENTER CHARGE SETTINGS

Press the scroll button to enter Charge Settings.

Charge Setting	
Battery Type	Balance CHG
Battery Cell	Charge
Task	Discharge
Condition	Reg. Discharge
Cycle	Storage
Charge Current	Cycle

SELECT TASK

Using the scroll wheel, select the desired working mode.

Charge Setting	
Battery Type	12.0A
Battery Cell	12.0A
Task	12.0A
Condition	12.0A
Cycle	12.0A
Charge Current	12.0A

SELECT CHARGE CURRENT

Using the scroll wheel, select the desired working current.

Charge Setting	
Battery Type	LiPo
Battery Cell	LiHV
Task	LiFe
Condition	Liion
Cycle	NiCd
Charge Current	NiMH

SELECT BATTERY TYPE

Using the scroll wheel, select the type of battery connected.

Charge Setting	
Battery Type	4.18V
Battery Cell	4.19V
Task	4.20V
Condition	4.21V
Cycle	4.22V
Charge Current	4.23V

SELECT CUT-OFF VOLTAGE

Using the scroll wheel, select the desired cut-off voltage.

Charge Setting	
Temp. Cut-off	50°C
Start	51°C
Back	52°C
	53°C
	54°C
	55°C

SELECT TEMP. CUT-OFF

Using the scroll wheel, select the temperature protection thresholds.

Charge Setting	
Battery Type	1S(3.8V)
Battery Cell	2S(7.6V)
Task	3S(11.4V)
Condition	4S(15.2V)
Cycle	5S(19.0V)
Charge Current	6S(22.8V)

SELECT BATTERY TYPE

Using the scroll wheel, select the cell count of the connected battery.

Charge Setting	
Battery Type	0
Battery Cell	1
Task	2
Condition	3
Cycle	
Charge Current	

SELECT CYCLE COUNT

Using the scroll wheel, select the cycle count (0-3).

Charge Setting	
Temp. Cut-off	50°C
Start	
Back	

START

Press the scroll wheel to begin. Press again to stop.

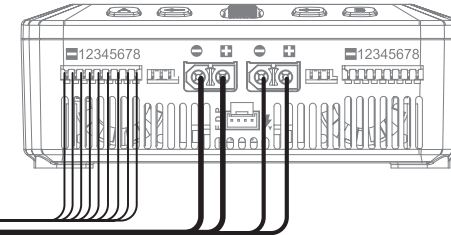
PARALLEL CHARGING

The DCX2 1600 supports Parallel Charging, delivering higher charging currents.

PARALLEL CHARGING IS ONLY SUPPORTED FOR 2-8 CELL LITHIUM BATTERIES. OTHER BATTERY TYPES ARE NOT SUPPORTED.

1. Select the channel to which the battery's balance lead is connected (Channel A / B).
2. Choose the correct battery type (LiPo / LiFe / Li-ion / LiHV).
3. In the task menu, select the 'Parallel Charge' option.
4. Set the charging current (33-50A).
5. Start the program after setting up.

LiPo Battery



For parallel charging, ensure both main ports are connected and the channel selected in step 1 has the balancing port connected.

The manual is subject to change without notice; please refer to our website for the latest version.

HitecRCD.com

WARRANTY AND SERVICE

LIABILITY EXCLUSION

This charger is designed and approved exclusively for use with the types of batteries stated in this Quick Start Guide. Hitec RCD USA accepts no liability of any kind if the charger is used for any purpose other than that stated. We are unable to ensure that you follow the instructions supplied with the charger, and we have no control over the methods you employ for using, operating and maintaining the device. For this reason, we are obliged to deny all liability for loss, damage or costs which are incurred due to any misuse or operation of our products. Unless otherwise prescribed by law, our obligation to pay compensation, regardless of the legal argument employed, is limited to the invoice value of Hitec RCD USA products which were immediately and directly involved in the event in which the damage occurred.

ONE YEAR LIMITED WARRANTY

For a period of one year from the date of purchase, HITEC RCD USA shall REPAIR OR REPLACE, at our option, defective equipment covered by this warranty. Otherwise, the purchaser and/or consumer is responsible for any charges for the repair or replacement of the charger. This warranty does not cover cosmetic damages and damages due to acts of God, accident, misuse, abuse, negligence, improper installation, or damages caused by alterations by unauthorized persons or entities. This warranty only applies to the original purchaser of this product and for products purchased and used in the United States of America, Canada and Mexico. Plastic cases are not covered by this warranty.

THE DCX2 1600 CHARGER WARRANTY IS VOID IF SOLD AND/OR OPERATED OUTSIDE THE UNITED STATES.

SERVICE AND REPAIR INFORMATION

To have your Hitec charger serviced, follow these steps:

- 1) Visit the Hitec website at www.hitecrcd.com and download the service request form.
- 2) Fill out the service request form completely and include a copy of your original receipt showing the purchase date.
- 3) Package your product in its original packaging or use a suspension-type packaging (foam peanuts or crumpled newspaper). Hitec RCD USA shall not be responsible for goods damaged in transit.
- 4) Ship prepaid (COD or postage-due returns will not be accepted) via a traceable, common courier (UPS, insured parcel post, FedEx, etc.) to:

Hitec RCD USA / Customer Service Center, 9320 Hazard Way, Suite D. San Diego, CA 92123

Hitec Group USA hereby declares that this device is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU. Please contact service@hitecrcd.com to obtain a copy of the EU Declaration of Conformity.



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