

# IDX COMPANY LTD

Xcellence in Power

*IDX Technology wants to thank you for purchasing the ION-4 special charger for NP-L50 & NP-L50S Lithium Ion Battery Pack and hopes that its compact and careful design will satisfy your battery charging needs. Please utilize this Operation Manual for help on how to use these chargers. If you have any additional questions, please contact the appropriate IDX office, listed below.*

## ION-4

### OPERATING INSTRUCTIONS

- A. Connect AC power cord firmly.
- B. Set the power switch ON (Green LED will light).
- C. **Basic Operation:-**  
ION-4 is quick Chargers for the NP-L50, NP-L50S, the NP type Lithium Ion Battery Pack from IDX. These chargers are designed to charge only the NP-L50/L50S and should not be used to charge any other battery type from IDX or any other manufacturer. ION-4 will charge four NP-L50/50S battery Packs simultaneously. The full charge time for a complete empty battery is approximately 2 and ½ hours to 3 hours. Upon inserting an NP-L50 battery the charge LED will be red indicating the unit has started charging the battery. After completion of charge the LED will turn to green indicating that the battery is fully charged and ready to use.

### SPECIAL FEATURES

- **For NP-L50/NP-L50S/NP-L46 only:** ION-4 charger is designed to charge only IDX NP-L50/50S/46, Lithium Ion Battery Pack, do not attempt to insert any other battery in this charger.
- **Low voltage battery:** This unit will not charge any NP-L50/50S/46 battery that is below six (6) volts. Above six (6) volt batteries, the unit will attempt to bring the battery to 12 volt before start charging fully. If the battery can not come up to 12 volt, within 90 minutes, the unit will show a battery fault by Flashing Orange LED
- **Cut-Off timer:** ION-4 is fitted with a cut off timer, which is set for eight and half (8.5) hours. The full charge time for complete charge is about three hours, but if a battery for any reason is not completely charged within the eight and half hours, the charge circuit will be automatically shut off.
- **Ambient Temperature.** This unit is designed to operate between -10 to +50 degree C.
- **Charge Circuit.** The unit is designed as constant current, constant voltage charge control system.

### LED COLOR STATUS LIST

- Solid Red**.....Quick charge in progress
- Solid Green**.....charge complete, battery ready
- Flashing Orange**.....defective battery

## **OPERATION PRECAUTIONS**

1. This unit is designed to Charge only IDX NP-L50/50S/46 Lithium Ion battery packs do not attempt to charge any other battery in this unit
2. Do not rest any object on the unit, or block the ventilation holes during operation.
3. Do not expose the unit to direct sunlight, use in well ventilated place.
4. If the charger's power LED fails to light, check the fuse. If necessary, replace with spare fuse provided.
5. For repair or replacement, please contact the factory, offices or its authorized distributors. Do not attempt to open the unit, there are no user serviceable parts inside.

## **SPECIFICATIONS**

### **ION-4**

No of Channels.....	4
Charge time .....	Approx. 2.5 hrs (Max)
Weight.....	2.8 Kg (6.16 lb)
Dimensions.....	2.95”H x 8.26”W x 8.26”D
.....	75 mm H x 210 mm W x 210 mm D
Quick Charge Current .....	3 A
Input Voltage.....	100~240V Automatic