

4-Channel Simultaneous Quick Charger

Instruction Manual

IDX Technology wants to thank you for choosing the VL-4S and is sure that its innovative design will satisfy all your ENDURA battery charging needs. Please utilize this Operation Manual for help on how to best maximize the use of your VL-4S. If you have any additional questions, please contact the appropriate IDX office or visit our website www.idx.tv

■ Features

- Can charge all IDX ENDURA System Lithium Ion batteries (All IDX NP-Type batteries via optional A-E2NP charge adaptor).
- Full simultaneous quick charging on all 4 channels.
- Auto safety & protection features for damaged or misused batteries.
- Optimum charger for high battery usage, fast and powerful charge capabilities.
- Robust ultra-lightweight polycarbonate case, recessed power switch, built-in spare fuse, convenient carrying handle.
- Universal A/C power input for worldwide use.

■ Charger Operation

VL-4S chargers can charge up to four batteries simultaneously. With each charge channel operating independently, batteries can be connected in any order and at any time.

■ Operating Instructions

A. Connect AC power cord firmly.

B. Turn the front mounted power switch ON (Power LED will light).

C. Basic Operation:

- ① Insert a battery-----"Battery Check Mode" starts, the charge channel LED will show solid Red while the charger is checking the battery.
- ② Battery Check----- After 5 seconds the LED will remain Red indicating that the VL-4S is operating in quick charge mode, if a battery has a fault the LED will flash Amber. If a battery cannot initially enter quick charge a recovery program will start, during which time the LED will also remain solid Red. When the battery has successfully recovered, the VL-4S will automatically change to a quick charge program. If a battery cannot be recovered or is detected to be over-charged, the LED will flash Amber indicating a battery fault.
- ③ Charge Complete--- When a battery has been fully charged the charge channel LED will automatically change to solid Green, indicating that the battery is ready for use.

■ LED Colour Status List

- Solid Red ----- Battery Check / Quick Charge / Battery Recovery in progress
- Solid Green ----- Charge complete
- Flashing Amber ----- Battery Fault
- Flashing Red ----- Charger Fault

■ Description

As part of IDX's ENDURA System the VL-4S chargers offer "full" four channel Simultaneous quick charging, designed with high battery usage in mind they optimize charging with a minimum wait time. The VL-4S can be used to charge all IDX ENDURA Lithium Ion batteries and all IDX NP-Type batteries via the optional A-E2NP charger adaptor.

■ Safety Features

The VL-4S has built in safety features to protect the charger and batteries from serious damage in the event an attempt is made to charge a faulty battery. Low voltage batteries are detected prior to applying a quick charge current. If a battery is found to have a low voltage, it will not be quick charged until it reaches the acceptable quick charge level. This prevents any damage to the unit or to the battery. Batteries reaching an over voltage condition during the charge process will also be detected and charging will be stopped automatically.

■ General Notes

- While in use do not place anything on the charger and do not block ventilation holes.
- During operation the temperature of the charger will rise, this is normal and not a malfunction.
- When connecting a battery be sure to insert it in to the battery socket firmly.
- Do not attempt to use faulty batteries or batteries with incorrect specifications.
- Do not expose the charger to direct sunlight and use in a well-ventilated place.
- Do not operate near equipment that may be influenced by noise such as TV, etc.
- This product must be earthed and contains no user serviceable parts.
- Do not attempt to open or modify this unit, all work should be carried out by IDX service personnel only.
- For continued protection, replace fuse with specified type and rating.
- This unit should be turned on prior to inserting batteries.

■ Specifications

- Applicable batteries ----- All IDX ENDURA System Lithium Ion batteries.
(All IDX NP-Type batteries via A-E2NP Charge adaptor)
- Quick charge current ----- 2.3A(3.0A) / 16.8V for Lithium Ion Battery.
1.9A for NiCd Battery.
- Input voltage ----- 100 ~ 240V AC 50/60 Hz Automatic.
- Power Consumption----- 310 VA max.
- Dimension ----- 156 (W) x 153 (H) x 288 (D) mm
6.2 (W) x 6.0 (H) x 11.4 (D) inches
- Weight ----- 3.1 kg approx. (6.8 lbs)

