

ENDURA

™

Single Unit Rapid Charger

FOR RECHARGEABLE TWO-WAY RADIO BATTERIES

American Communication Systems

Discover the Power of Communications™

<http://www.ameradio.com>



User Manual

Models: EC-KSC25 / EC-KSC32



Overview

Endura EC-KSC chargers will charge LiPo, Li-Ion, NiMH, and NiCd batteries. They are compatible with the radios listed below.

Charger Model	Compatible Radios
EC-KSC25	Kenwood NX-220, NX-320, NX-420, NX-3220, NX-3320, TK-2140, TK-2160, TK-2170, TK-2360, TK-3140, TK-3160, TK-3170, TK-3173, TK-3360.
EC-KSC32	Kenwood NX-200, NX-200S, NX-210, NX-210G, NX-300, NX-300S, NX-410, NX-411, NX-5200, NX-5300, NX-5400, TK-2180, TK-3180, TK-5210, TK-5210G, TK-5220, TK-5230, TK-5310, TK-5310G, TK-5320, TK-5330, TK-5410, TK-5430, VP5230, VP5330, VP5430, VP6230, VP6330, VP6430.

If you have questions concerning radio or battery compatibility, contact a Power Products dealer, visit www.powerproducts.com, or call customer service at 800-529-1618.

Important

1. Always charge new batteries completely before initial use. Recycle batteries when they can no longer be used. Do not discard unwanted batteries in the trash or incinerate. Batteries exposed to fire or excessive heat may explode.
2. For best battery performance, charge NiCd and NiMH batteries when they are fully discharged.
3. Use charger in areas protected from the weather. Do not expose the charger to rain, any liquids, or excessive moisture.
4. Make sure contacts in charging pod and on the battery are clean. Do not allow wire or metal objects to touch contacts in charging pod or any internal part of the charger.
5. Do not remove the charger's housing or make any modification to the charger.
6. Use only the power supply provided with the EC-KSC model. If a replacement is required, order TWC1-PS.

Charging A Battery

1. Connect the charger to an AC wall outlet with the power supply provided.
2. Place the battery to be charged in the charger. The battery may also be charged while attached to the radio.

3. When a battery is placed in the charger and while charging, the status LED will illuminate RED with no flashing to indicate normal charging. If the status LED is red and flashes, a fault has been detected.
4. When the battery is charged to 90% of capacity, the status LED will change to GREEN and begin to flash. The status LED will illuminate GREEN with no flashing when the battery is fully charged.
5. When a battery is removed from the charger, wait for the status LED to go off before inserting another battery.
6. Charge batteries when they are between 0°C and 45°C (32° F – 113° F). Do not charge a battery when it is frozen (below 0°C / 32° F) or when it is excessively warm to the touch (45°C / 113° F or above). Charging automatically terminates if battery temperature reaches 45°C while charging.

Fault Conditions

When the status LED flashes RED, a fault condition exists. The fault conditions are as follows:

- Battery has a short circuit. This warning is provided after the pre-charge stage is completed. Remove the battery from the charger and recycle.
- Battery is under charged. This warning is provided after the rapid charge stage is completed and indicates the battery is nearing or at end of life.

Warranty And Service During Warranty

Power Products Unlimited, LLC. (PPU) warrants this product to be free from defects in workmanship and materials for one-year from date of purchase by the end user. This warranty applies to the original purchaser and is void if the product has been altered, misused, damaged, neglected, or if repair is required because of normal wear and tear. This is the only warranty made by PPU. In no event will PPU, its affiliates, subsidiaries, related entities, or their respective directors, officers, or employees, be liable for any damages beyond repair or replacement as described above, including without limitation, indirect, incidental, or consequential damages. For service under warranty, return the product along with dated proof of purchase to the retailer where purchased or to Power Products. If returning directly to Power Products, follow these instructions:

- Send to Power Products – Warranty Service Department, 2170 Brandon Trail, Alpharetta, GA 30004. For your protection, we recommend you obtain proof of delivery for your shipment.
- Include with your product, dated proof of purchase, your name and daytime telephone number, and return address (street address only; return shipments cannot be made to a P.O. Box).
- All items sent become the property of Power Products and will not be returned.

EC-KSC Charger Specifications

Dimensions (W x L x H)	114.3 x 114.9 x 50.2 mm / 4.50 x 4.52 x 1.97 inches
Weight	0.14 kg / 0.32 lbs. (charger only)
Compatible Chemistries	Li-Ion / LiPo / NiMH / NiCd
Operating Temperature	0° C – 45° C / 32° F – 113° F
Power Supply Input	100V – 240V AC / 50 Hz – 60 Hz / 0.5A
Charger Input	12V-24V DC / 1.0A (minimum)
Charge Rate	700 mA (10.6V-13.5V)
Approvals	FCC ^A / UL (power supply only)

(A) This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
Specifications subject to change without notice.



Endura Chargers By Power Products

2170 Brandon Trail • Alpharetta, GA 30004

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