

## PERKO Limited Warranty FIVE YEAR LIMITED WARRANTY

PERKO, INC. (PERKO) warrants to the original consumer-purchaser that PERKO'S consumer products will be free from defective materials or workmanship, and that the PERKOPLATE/PERKO•KOTE Finish will remain corrosion-free under normal use and service, for a period of **five (5) years** from the original purchase date. Products installed as original equipment by a boat builder or manufacturer are limited to one (1) year or the duration of the manufacturer's general accessory warranty, whichever is longer.

ALL IMPLIED WARRANTIES, INCLUDING MERCHANTABILITY, ARE ALSO LIMITED IN DURATION TO THE FIVE YEAR PERIOD FROM THE ORIGINAL PURCHASE DATE.

PERKO SHALL NOT BE LIABLE FOR LOSS OF USE OF ANY OF ITS CONSUMER PRODUCTS, NOR FOR OTHER INCIDENTAL OR CONSEQUENTIAL COSTS, EXPENSES, OR DAMAGES INCURRED BY THE ORIGINAL CONSUMER-PURCHASER OR BY ANY OTHER PERSON.

SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY OR MAY NOT APPLY TO YOU. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY OR MAY NOT APPLY TO YOU.

This warranty is void if the consumer product warranted has been damaged by accident or unreasonable use, neglect, improper service or other cause not arising out of defects in material or workmanship. Excluded from this warranty are Electric Light Bulbs (lamps), Sealed Beam Units and Fuses.

During the warranty period, your PERKO product will either be repaired or it will be replaced with a like product (at PERKO's option) without charge to the original consumer-purchaser, when returned prepaid and insured, with proof-of-purchase date to PERKO at the address shown below. In the event of replacement, the replacement product will continue the warranty of the original product, or ninety (90) days, whichever is longer.

PERKO does not authorize any person or company to create for it any other obligation or liability in connection with any of its products.

PERKO, INC. • 16490 N.W. 13TH AVENUE • MIAMI, FL 33169-5707

### PERKO Warranty Terms: Light Engine

This product is covered by Durabrite's **10 Year Limited Warranty** against material and manufacturing defects. However, it does not cover application and conditions that are outside of the product design parameters, abuse, and wear-and-tear. Further details can be found on their website at: <https://durabritelights.com/pages/warranty>

**Any product branded DURABRITE should be handled directly by Durabrite at:**  
<https://durabritelights.com/pages/repair-request-form>



## LIGHTSHIP - 50™ High Performance LED Flood/Spot Lights Installation Instructions



Fig. 1643 Lightship 50 Series

Cat. Numbers:

Flood Light

- 1643050FOB
- 1643050FOW

Spot Light

- 1643050S0B
- 1643050S0W

**WARNING!!**  
**USE DC POWER INPUT ONLY**  
Plugging AC power to light directly will destroy the driver  
and will NOT be covered by the warranty.

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[www.perko.com](http://www.perko.com)

# PERKO FIG. 1643 LIGHTSHIP 50 SERIES HIGH PERFORMANCE LED FLOOD/SPOT LIGHTS INSTALLATION INSTRUCTIONS

## READ ALL DIRECTIONS BEFORE PROCEEDING

- 1). Examine mounting template, and choose appropriate mounting location.
- 2). Orient the template so that desired illumination is achieved, then use the template to drill mounting and wiring holes.
- 3). This is a DC light. You should only power it directly using a DC source. The light will auto detect the DC voltage.
- 4). Connect:
  - a. White wire to Positive (+) supply.
  - b. Black wire to Negative (-) supply.
- 5). All wire connections including the open end of the cable jacket **MUST BE** protected from water intrusion. Otherwise, damage due to water ingress, short circuits, or corrosion will not be covered by the warranty.
- 6). Make electrical supply connections in accordance with A.B.Y.C. Standard E-9\* and U.S. Coast Guard Safety Standards for Boat Electrical Systems\*.
- 7). Fasten to deck with 5/16" or 1/4" round or hex head screws as shown in the diagram.

\* The above referenced standards can be obtained from:

- |  |   |
|--|---|
| (1) American Boat & Yacht Council, Inc.<br>613 Third Street, Suite 10<br>Annapolis, MD 21403 | (2) U.S. Coast Guard<br>Washington, D.C. 20593<br>(or your local C.G. office) |
|--|---|

## WARNING!!

**USE DC Power input Only**  
Plugging AC power to light directly will destroy the driver and will NOT be covered by the warranty.

## OPTIONAL 120-240 Volt Installation

- |   |  |
|---|--|
| 1). Order PERKO Cat. No. <b>1679050</b> 24V POWER SUPPLY (120/240 VAC 50/60 Hz INPUT) for Lightship 50.   | 4). All wire connections including the open end of the cable jacket <b>MUST BE</b> protected from water intrusion. Otherwise, damage due to water ingress, short circuits, or corrosion will not be covered by the warranty. |
| 2). Use one 1679050 for each Lightship 50 light.  |  |
| 3). Connect: <ol style="list-style-type: none"> <li>a. White wire to Positive (+) supply (Red wire on the Output side of the Power Supply).</li> <li>b. Black wire to Negative (-) supply (Black wire on the Output side of the Power Supply).</li> </ol> | 5). Make connection on the Input side of the Power Supply according to the National Electrical Code or equivalent in your country. The Power Supply can be powered by either 120VAC or 240VAC 50/60 Hz.                      |

## Optical & Electrical Characteristics

(All ratings are at 77°F unless otherwise specified)

|                         |   |
|-------------------------|---|
| LED Color, CCT          | Typical = 5000K (Neutral white)<br>Lower limit = 4700K; Upper limit = 5300K |
| Brightness              | 7,500 lm (raw)<br>Constant regardless of input voltage                      |
| Beam Angle              | 20 deg (Spot)<br>80 deg (Flood)   |
| Operating Voltage       | <u>Auto detect</u><br>12VDC, 24VDC, 32VDC                                   |
| Current Draw            | Approx. 1.9A at 24VDC<br>Approx. 3.9A at 12VDC                              |
| Total Power Consumption | 50W   |

## Mechanical Characteristics

|                      |   |
|----------------------|---|
| Water Resistance     | IP68<br>(submerged to 4.5 ft water for 30min) |
| Temperature Range    | -40°F to 130°F                                |
| Vibration Resistance | MIL-STD-202G<br>(TM201A 4 Cycles)             |

