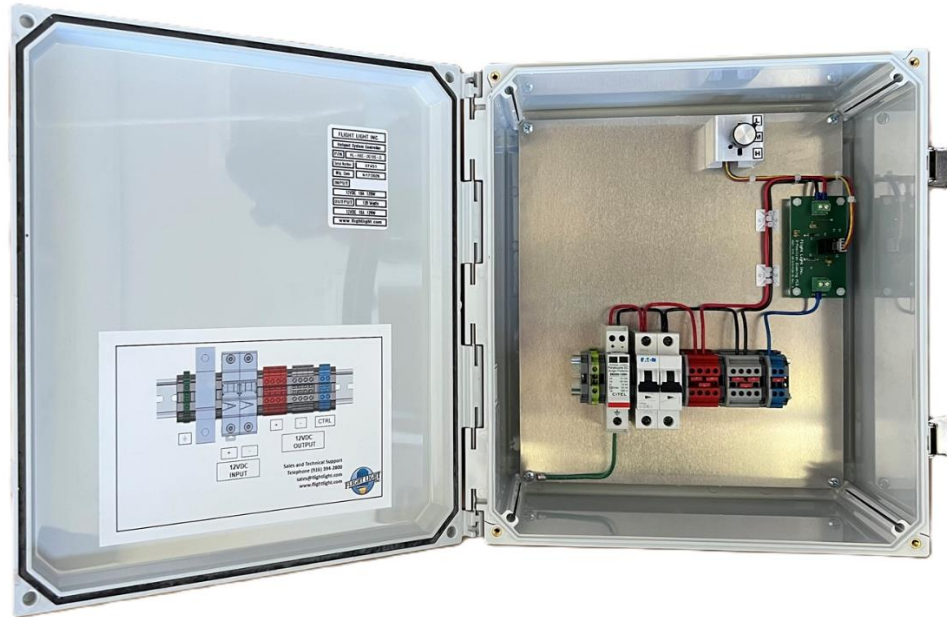




HL-HSC-DC1DC-D USER MANUAL



HELIPORT SYSTEM CONTROLLER (DIMMING)

INPUT VOLTAGE: 12VDC, 10A, 120W

OUTPUT VOLTAGE: 12VDC, 10A, 120W

THIS MANUAL CONTAINS IMPORTANT PERFORMANCE, MAINTENANCE AND SAFETY INFORMATION. PLEASE READ THE MANUAL BEFORE INSTALLING THE LIGHT SYSTEM, AND KEEP THE MANUAL HANDY FOR FUTURE REFERENCE

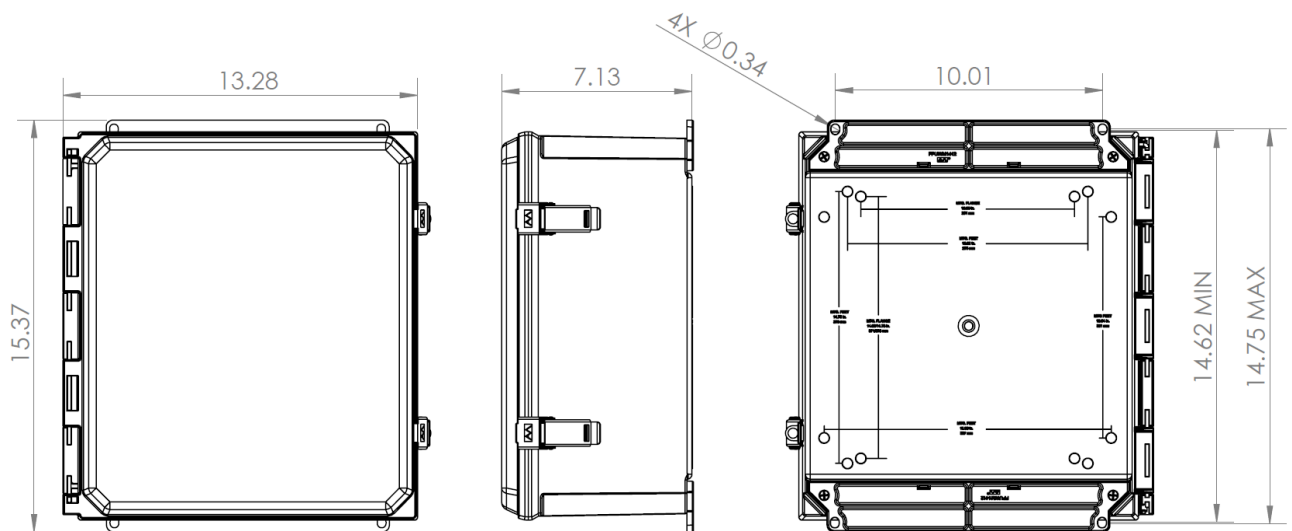


HL-HSC-DC1DC-D USER MANUAL

The HL-HSC-DC1DC-D Controller has been designed with safety and protection features to provide years of service with little maintenance when used properly. Please adhere to the following instructions for proper installation and operation.

Mounting Installation Instructions

- a. When selecting a mounting location, it is best not to mount the enclosure in direct sunlight, or next to a heat source. Temperatures above 110° F may affect the power supply power rating.

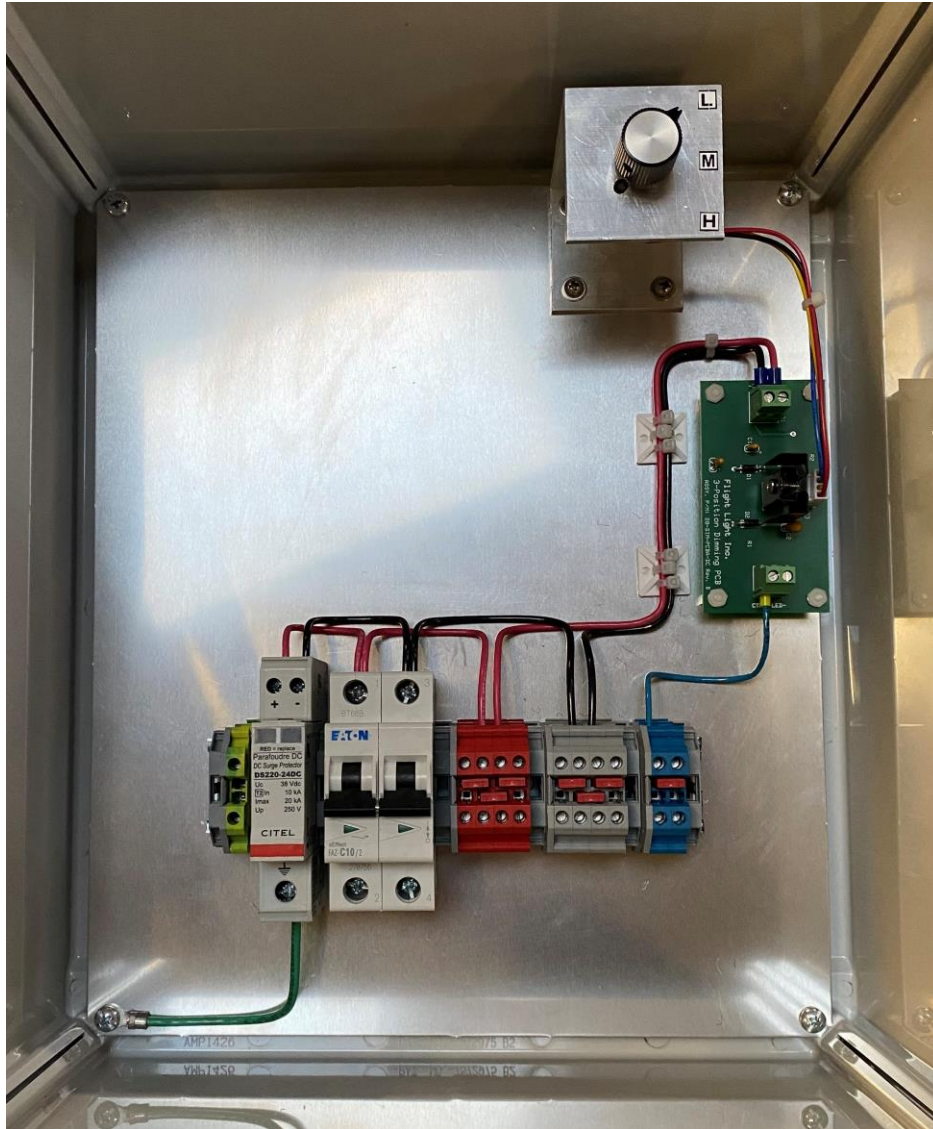


Enclosure Showing Mounting Tabs

- b. The controller enclosure is NEMA 4 compliant and is usually mounted to a wall utilizing the four mounting holes located on the enclosure's mounting tabs (mounting hardware supplied by installer). The approximate size of the enclosure is 14"H x 12"W x 6"D.



HL-HSC-DC1DC-D USER MANUAL



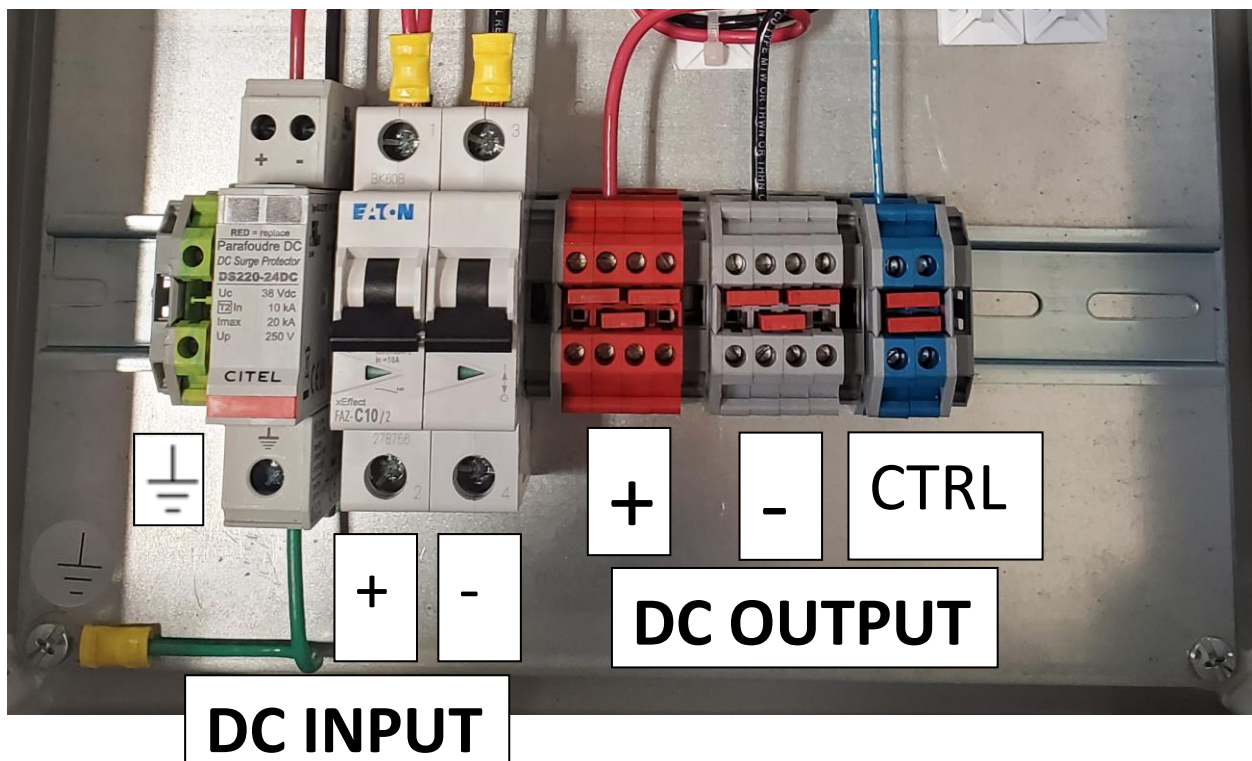


HL-HSC-DC1DC-D USER MANUAL

Controller Electrical Installation Instructions

- Access holes need to be placed in the enclosure for power wires entering and leaving the Controller. These holes can be any size, and can be placed anywhere on the bottom wall of the box. Flight Light Inc. is not responsible for damage or incomplete sealing caused by this process.
- The HL-HSC-DC1DC-D Controller has an input/output (**12VDC**) rated at 120W (Max), 10A (Max).
- Connect the DC input wires to the circuit breaker according to Figure 1, Figure 2, and Table 1.
- Connect the DC output wires to the colored terminal blocks according to Figure 1, Figure 2, and Table 1.
- The Blue CTRL terminal block provides a 0-5V analog dimming voltage according to Figure 1, Figure 2, and Table 1.
- Note: All light fixtures are wired in parallel.**

Figure 1: Wiring Connections



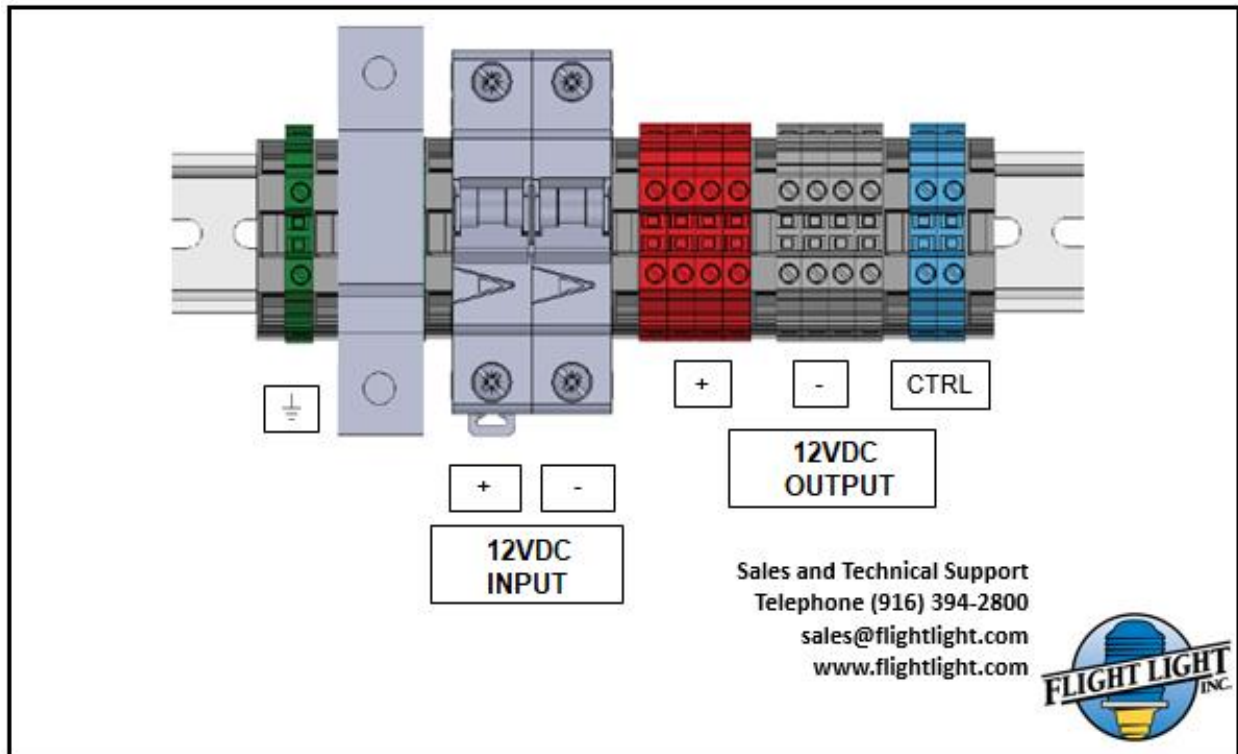


HL-HSC-DC1DC-D USER MANUAL

Table 1: Controller Wiring Connections

Circuit Breaker Connection-INPUT
VDC+ , Circuit Breaker Input 1-Left (12VDC MAX, 10A MAX)
VDC- , Circuit Breaker Input 2-Right
GROUND , Green Terminal Block
Terminal Block Connection-OUTPUT (to light fixtures)
VDC+ , Red Terminal Block (12VDC, 10A, 120W)
VDC- , Grey Terminal Block
Dimming Control-CTRL , Blue Terminal Block (0-5VDC)

Figure 2: Wiring Connections





HL-HSC-DC1DC-D USER MANUAL

Light Fixtures Electrical Installation Instructions

- a. **Note: All fixtures are wired in parallel.**

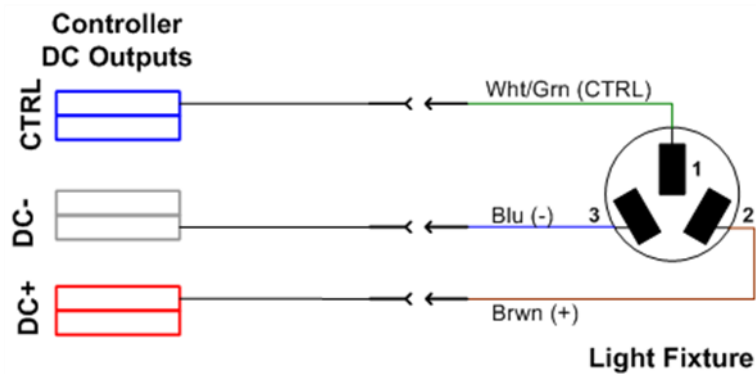


Figure 2: HL-292/392/492/692 Fixture Wiring Diagram

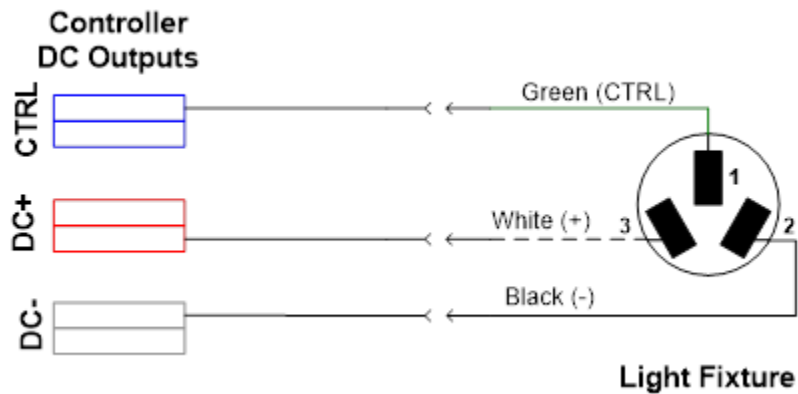
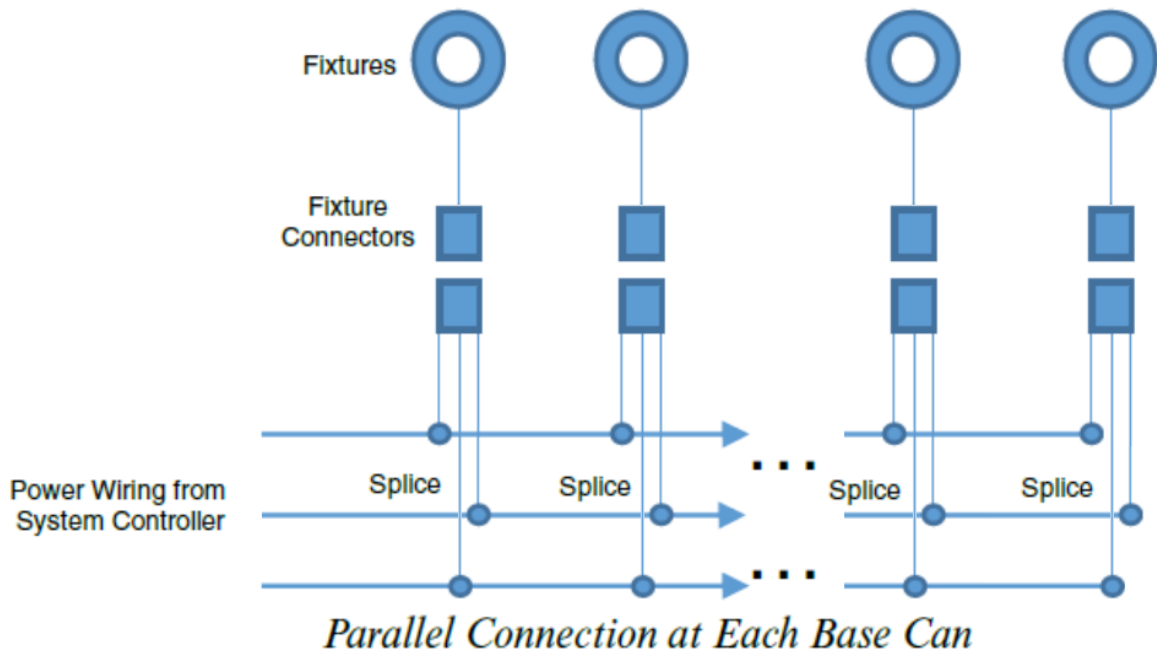


Figure 3: HL-292/392/492/692 Fixture Wiring Diagram



HL-HSC-DC1DC-D USER MANUAL





HL-HSC-DC1DC-D USER MANUAL

Controller Setup and Operation

- a. Switch the 2-pole Circuit Breaker to the “On” position to provide power to the controller.
- b. The controller has three brightness modes, **L = LOW**, **M = MED**, **H = HIGH**, selectable by the rotary switch.
- c. The system is turned off by placing the circuit breaker switch in the off position.



Figure 2: Dimming Control

Troubleshooting

- a. If your system does not operate properly when you turn it on, here are some helpful hints to diagnose the problem.
 - i. Verify you have the correct voltage at the input terminals.
 - ii. Verify you have 12VDC +/- 1.0VDC at the output terminals, measure the voltage between (RED) and (GREY) terminal blocks.



HL-HSC-DC1DC-D USER MANUAL

- b. If the fixtures do not change brightness, measure the voltage between the CTRL (BLUE) and DC- (GREY) terminal blocks, as the brightness dimming switch is rotated. The voltage should change at each brightness setting: High Brightness (1.2 – 1.7 VDC), Medium Brightness (2.4 – 3.9 VDC), Low Brightness (3.4 – 3.9 VDC).
- c. If a group of fixtures do not light, check the wiring from the controller to the fixtures to locate the wiring problem.
- d. If a single fixture does not light, first check the fixture to see if it's defective (swap locations). If the fixture lights, the problem is most likely with the wiring to the fixture connector, or with the connector itself.
- e. If further assistance is required, contact Flight Light Inc. Technical Support at:
1 (916) 394-2800

WARNING:

MOUNTING BASE CAN IS NOT A WATER-PROOF JUNCTION BOX.

WIRE SPLICING MUST BE DONE INSIDE A UL APPROVED WATER-
PROOF JUNCTION BOX.

WARRANTY WILL BE VOID IF INSTALLATION IS NOT DONE PROPERLY.