

**KEY FEATURES**

Designed for Horticulture Lighting Group Diablo and 650R lights with dim to off capability

Pushbutton control in 20% dimming increments

Scheduling & dimming available with GrowFlux Access Point

Remote control and scheduling on any device through GrowFlux App

GrowFlux Mesh wirelessly networks many Lighting Adapters for farms of any size

Long range, reliable wireless communications - all layers are securely encrypted

Easy installation and setup

The GrowFlux Mesh Lighting Adapter brings wireless control, including scheduling and dimming to HLG lights. The Lighting Adapter scales to farms of any size with reliable GrowFlux Mesh wireless connectivity.

**RELIABILITY YOU CAN
BET THE FARM ON**

Fully manual control or connected control with the addition of the GrowFlux Access Point. Cloud Enabled controls combine the benefits of connected controls with the reliability of on premise control systems.

Stores lighting schedules within each Lighting Adapter for resilient control. Device time is stored locally within the battery backed Access Point. Remotely monitor the status of your lighting system. Designed to operate on time even through power or internet interruptions.

GROWFLUX MESH

Works together with the GrowFlux Access Point and other GrowFlux Mesh enabled products to propagate a high reliability wireless network locally within your farm. Utilizing 900MHz frequencies for ultimate range and reliability, GrowFlux Mesh is built for critical production environments and is hardened against security threats with AES128 and TLS encryption.

**SOFTWARE DEFINED
ZONING**

Never manually program a lighting controller again with Software Defined Zoning. Zones can help manage the most complex of farms and can be reconfigured in minutes within the GrowFlux App.

**UNLOCK ENERGY
SAVINGS**

Meet regulatory requirements LED lighting systems with precision scheduling and dimming. The GrowFlux App gives total control over PPFD light density and energy loads.

**CONTROL FROM ANY
DEVICE**

Monitor, schedule, and control your lighting network from anywhere with the GrowFlux App for iOS and Android, or the browser based GrowFlux app at <https://panel.growflux.com>. GrowFlux Access Point required, sold separately.



General Specifications

Dimensions:	88.6mm x 38.4mm x 29.2mm
Weight:	75g
Ingress protection:	IP5x - limited dust ingress permitted
Operating temperature range:	-40 to 65°C (-40 to 149°F)

Electrical Specifications

Voltage input:	11.3 - 14.0 VDC
Absolute maximum voltage input:	18 VDC
Input voltage ripple:	+/- 100mV
Current consumption:	75mA max current draw at 12.0 VDC
Control output PWM voltage:	10V fixed
Control output PWM frequency:	5KHz
Absolute max voltage on PWM pin	18 VDC

Mechanical Specifications

Enclosure material:	Silicone buttons, PET overlay with hardcoat, ABS enclosure
Mounting methods:	Adhesive, adhesive tapes and adhesive fasteners (3M VHB, etc.)

Wireless Specifications

Wireless protocol:	GrowFlux Mesh - Sub GHz wireless mesh built on IEEE 802.15.4
Security:	RF data is AES128 encrypted; application layer is TLS encrypted. No inbound connections
Wireless frequency:	902-928MHz (US & Canada Market)
Wireless range:	500 feet line of sight peak range; 200-500 feet general line of sight range*
Meshing:	Meshes to nearest devices; smart range extension & self healing mesh
Channels:	50 channels; automatic channel hopping

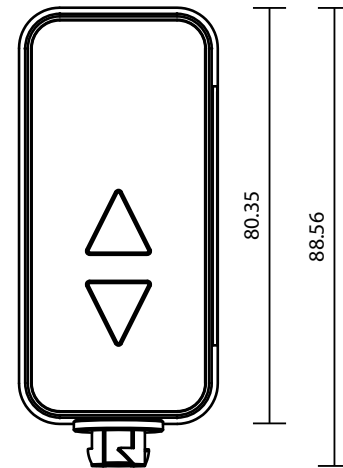
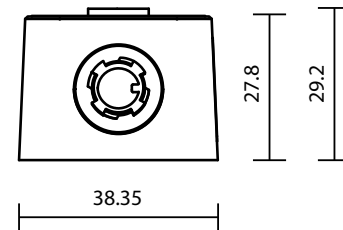
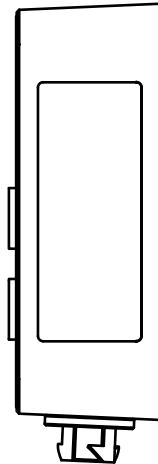
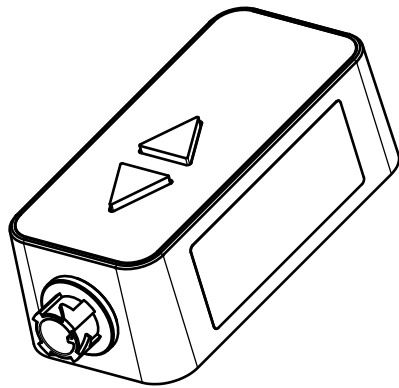
Compliance

Restricted uses:	Not for use in military, weapons, or aviation applications. Not for use in medical applications.
Intended use:	Designed for use on portable luminaires compliant to UL1598 standards. Designed to control one luminaire. Not intended for installation by end user.
FCC / IC	Complies with part 15 of the FCC Rules and IC requirements; certified for use in the United States and Canada.

Note:

1. Range is dependent on RF environment in which wireless device is deployed and may vary. Antenna is designed for use with module mounted on metal equipment. Wireless range in certain directions (through metal enclosure, etc) may be significantly limited compared to general range in other directions. Wireless range with line of sight to unobstructed plastic enclosure is generally around 200-500 feet on average. Nearby wireless meshed devices will extend wireless range of entire mesh.

Part Number
OEMHG01 - GrowFlux Lighting Adapter for Horticulture Lighting Group
Firmware Version (FVIN)
HLG-S-DIABLO
HLG-650-R



All dimensions MM
RoHS Compliant