

OPA-2

Smart Junction Box

The ThinkGrow Smart Junction Box 2 (OPA-2) is an electronic circuit breaker and energy meter designed for real-time monitoring and control of electrical parameters such as voltage, current, power, and power factor. Equipped with overcurrent protection functionality, users can set three levels of overcurrent protection points. With built-in overcurrent protection and compatibility with TrolMaster controllers, the OPA-2 allows remote monitoring and adjustment of settings for optimal performance.

The OPA-2 allows users to set parameter values for Line 1 and Line 2 in Light Group Control Groups 0-9, as well as for UV, White, Deep Red, and Far Red in Spectrum Group Groups 0-9. This functionality enables precise control over the illumination levels of the lighting strips. Featuring RS-485 communication, it supports precise control of lighting systems and offers unparalleled reliability and durability. If the circuit protector detects unusually high amperage, the power to the LEDs will be turned off to prevent damage to the LEDs and the Daisy Chain Power Cord System.



Specifications

OPA-2

Input Voltage

Input Voltage100-277V~, 50/60Hz

Rated Current

Rated Current30A

Rated Voltage

Rated Voltage100-277V~

Shut-off Point Range

Shut-off Point Range15A / 20A / 30A

Sensitivity to Protection

Sensitivity to ProtectionResponse within 0.5s

Package Dimensions

Size10.83inch / 275 mm(L) x 6.69inch / 170 mm(W) x 3.74inch / 95 mm(H)

Overcurrent ProtectionPoint

Overcurrent Protection Point+120%

Accuracy

Voltage±2% readings

Current±2% readings

Power±5% readings

PF±10%

Package Contents

Smart Junction Box (OPA-2)1pc

ECS-7 Daisy Chain Control Cable1pc

ECS-9 Connector Cable2pc

Y- Splitter2pc

Working Environments

Temperature32-104°F (0-40°C)

Humidity≤90%

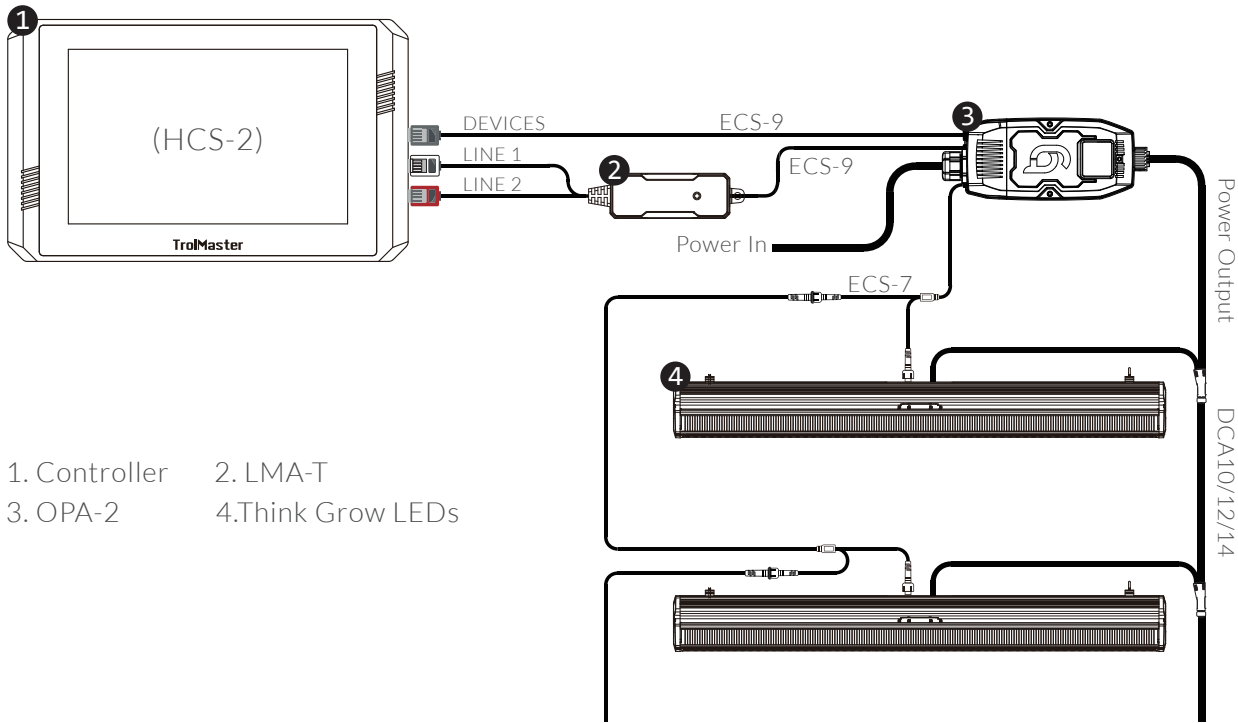
Certifications

CertificationsETL / FCC

Link Up

OPA-2

CONNECTION DIAGRAM



1. Controller
2. LMA-T
3. OPA-2
4. Think Grow LEDs

