

HLF compact series – Constant Current, Non-Programmable, Dimmable, Class P, 6" long, Indoor LED Drivers



- Class P LED drivers allow OEMs flexibility in their fixture design.
- Great choice for an end user for field replacement.



Electrical Specifications

- Line Voltage: 120–277Vac ±10%, 50/60 Hz
- Constant Current Output (Tolerance: ±5%)
- Dimming Range: 5% – 100%
- Power Factor: >0.9 for 80-100% load condition
- THD: <20% for 80-100% load condition
- Efficiency: 85% @120V & 87% @277V w/ rated load
- Dimming: 0V – 10V Dimmable

Physical Parameters

- Overall Length (L): 6.0" ± 0.1"
- Width (W): 1.8" ± 0.1"
- Height (H): 1.1" ± 0.1"
- Weight: 0.8 lbs
- Black / White Wire (L): 12" ± 0.5"
- Red / Blue Wire (L): 12" ± 0.5"
- Purple / Pink Wire (L): 12" ± 0.5"
- Lead Wires: 18AWG 105°C 600V

Features

- Rugged and durable steel housing
- Open Circuit Protection
- Short Circuit Protection
- Minimum starting temperature: -20°C
- Warranty: 5 year
- Suitable for use between -20°C (-4°F) to 55°C (131°F) ambient temperatures
- Listings: UL Class 2/Class P
- ROHS compliant

Standards & Safety

- UL8750 – LED Equipment – Listed
- Class 2 Output Rated
- FCC Part 15 Class B
- Sound Rated: A
- No PCB's
- This product's warranty is based on case temperature, Tc, at 80°C.

Model Name	Output				Internal Surge Protection	Input Current (A)max	Inrush Current A(pk)
	Voltage (VDC)	Current (mA)	Power (W)	No Load Volt _{max} (VDC)			
HLF35-C700-DMVP[‡]	30 – 50	700	35	58	2.5 kV	0.35	<30A
HLF050-C1400-DMVP[‡]	21 – 36	1,400	50	58		0.53	
HLF060-C1225-048DMVP[‡]	29 – 49	1,225	60	58		0.60	

[‡] Sold in package quantity of 24 pcs/carton

Protections

- **Short Circuit Protection:**
When operating under any line condition into a short circuit condition for an indefinite period time, the power supply shall be self-recovering when fault condition is removed.
- **Over Current Protection:**
When operating under any line condition into any over load condition for an indefinite period of time, the power supply shall be self-recovering when fault condition is removed.

Environmental Conditions

- **Operating:**
The power supply shall be capable of operating continuously in any mode without performance deterioration in the following environmental conditions:
 - Ambient temperature: -20°C to 55°C. 100% rated power at 55°C.
 - Class P
 - Relative Humidity: 5 to 95%, non-condensing
 - Cooling: Convection
- **Non-Operating:**
The power supply shall be capable of standing the following environmental conditions for extended periods of time, without sustaining electrical or mechanical damage and subsequent deficiencies.
 - Ambient Temperature: -40° to 85°C
- **Shock and Vibration:**
 - MIL-STD-810G Shock Method 516.6 procedure IV and Vibration Method 514.6 Procedure 1, Category 4

Reliability

- **MTFB:**
 - >300,000 hours calculated to MIL-HDBK217F @ 25°C rated Load
- **Product Life:**
 - >5yrs @ Tc = 85°C & Ta=55°C ambient, rated load

EMC

- **Conducted:**
 - FCC Part 15 Class B @ 120V / FCC Part 15 Class A @ 277V
- **Audible Noise:**
 - Class A Sound rating not to exceed 24dBA (audible) when installed in fixture and such fixture is installed in its normal use. The measurement is to be made from a distance not less than 3 feet.
- **ESD:**
 - IEC 61000-4-2 Level 2: 2KV Air and Contact.
- **Input Transient Protection (Surge Protection)**
 - Product complies with IEEE C.62.41-2002 (seven strikes of a 100 kHz, 2.5kV level for both common mode and differential mode.)

Safety

- **Approval Agencies**
 - o UL 8750 - LED equipment for use in lighting product
 - o CSA C22.2 No 250.13-12 – LED equipment for lighting applications

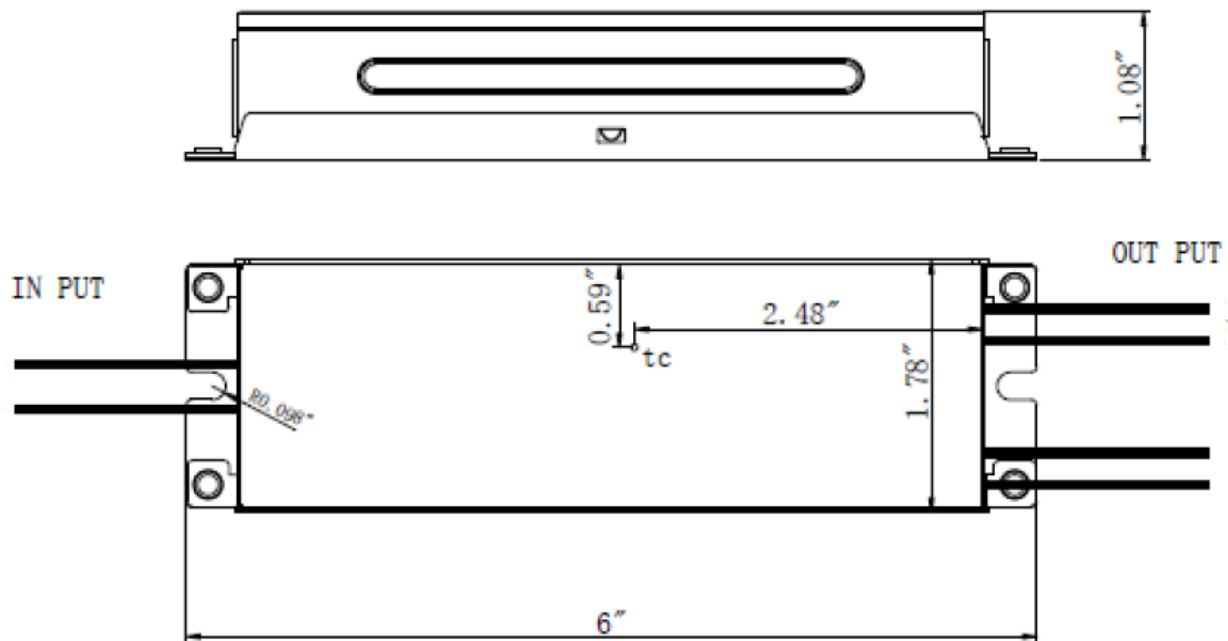
Dimming Methods

- **0-10V Dimming**
 - o 0-10V Input Signal
 - o Dimming Range: 10-100%

Mechanical

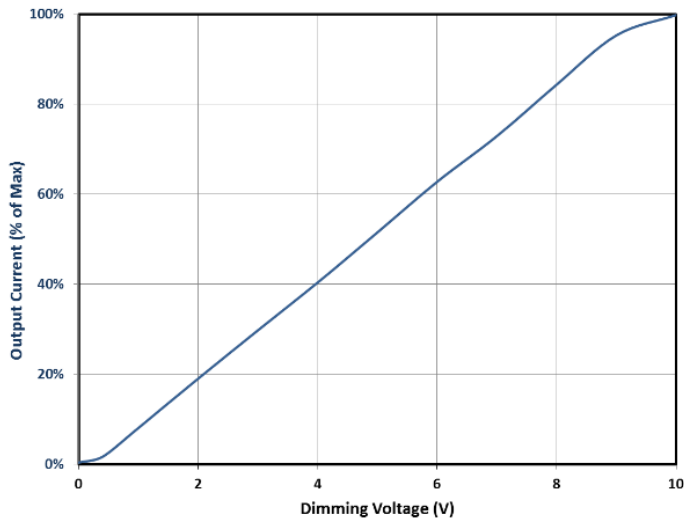
- **Materials**
 - o Metal case
 - o All material to be ROHS compliant to Directive 2011/65/EU and (EU)2015/863.
 - o Input: Black & White: 12in, 18 AWG 105°C 600V
 - o Output: Red & Blue: 12in, 18 AWG 105°C 600V
 - o Dimming: Purple & Pink (or Gray): 12in, 18 AWG 105°C 600V

Physical Dimensions:



Overall Length (L):	6.0" ± 0.1"	Can Length	5.3" ± 0.1"
Width (W):	1.8" ± 0.1"	Hole to Hole (L)	5.7" ± 0.1"
Height (H):	1.1" ± 0.1"	Hole to Hole (W)	1.4" ± 0.1"
Weight (lbs):	0.8 lbs	Wire Length	12" ± 0.5"

0–10V Dimming Curve



Driver Lifetime Vs. Case Temperature

