

E-Dimming LED Driver

Design and Quality EASEIC of USA

HBP-I 60-48A

E-Dimming 0/1-10V DRIVER

SPEC SHEET



160W 48V 3.30A 0/1-10V Dim HBP
HBP-I 60-48A
69216003



SELV IP67 RoHS

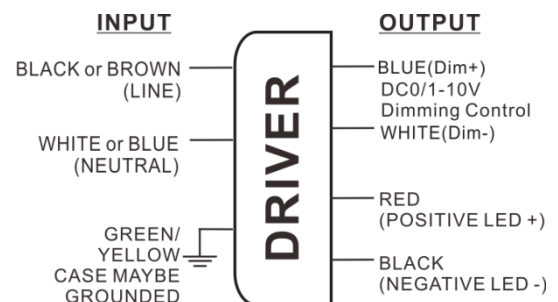
Features

- Universal AC input (90~305Vac)
- Designed for LED lighting applications
- Built-in 3 in 1 dimming function(0/1-10V,PWM or Resistance)
- IP67/IP65 design for indoor or outdoor installations
- These drivers operate to specification under wide temperature and electrical ranges to ensure reliability
- HBP series LED drivers for use in Class I, Division 2 hazardous location luminaires
- Cooling by free air convection
- Suitable for dry, damp, and wet location
- 5 year warranty

Benefits

- Applies to all indoor and outdoor LED lighting
- Helps to maximize energy savings and allows application specific light levels
- Supports majority of available dimming solutions

Wire Diagram



Note:

Install in accordance with National and Local Electrical Codes.

Please pay special attention to wiring installation guidelines,

Wrong wiring will cause damage to the LED driver.

Before connection the power, make sure you have access to the LED load.

Product Data

Input Voltage (Vac)	Output Power (W)	Output Voltage (V)	Output Current (A)	Efficiency @Max Load and 70°C case	Max Case Temp. (°C)	Input Current (Arms)	Max Input Power (W)	THD @Max Load (%)	Power Factor @Max Load	Weight (Lbs/kgs)	Envir. Protection Rating
120	160	28-48	3.30	90.0	Life-75°C UL-85°C	1.54	185.1	<20%	>0.96	3.96/1.80	UL damp and dry
230				90.0		0.80		<20%			
277				91.0		0.66		<20%			

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Electrical Specifications

Ordering Information			
Type	HBP-160-48A		
Order Code	69216003		
Full product name	E-Dimming 160W 48V 3.30A 0/1-10V Dim HBP		
Input Information			
Line Voltage	100-277Vac_rms		
Line Current	1.54A@120VAC	0.80A@230VAC	0.66A@277VAC
Line Frequency	50/60Hz		
Min, Mains Voltage operational	90[min]		
Max, Mains Voltage operational	305[max]		
THD(total)	<20%		
Power Factor(PF)	>0.96		
Inrush Current(Typ.)	Cold Start 65A(twidth=270us measured at 50% Ipeak) at 230VAC		
Leakage Current(Typ.)	<0.75mA/230VAC		
Output Information			
Output voltage	28V to 48V		
Output Constant Current	3.30A		
Maximum open circuit voltage	<60V		
Output Current Ripple (ripple=peak to peak)	2% of nominal output voltage (whichever is greater),measured at 20Mhz bandwidth with 0.1uf ceramic capacitor in parallel with 10uf electrolytic capacitor connected at the end of the output connector.		
Protections	Over Current, Over Voltage, Short Circuit and Open Circuit Protection for LED+ and LED-		
Ambient Temp Range	-40℃ to +70℃, 20-95% RH non-condensing		
Max Case Temperature(Tc)	75℃ for Life & 85℃ for UL Safety		
Features			
Dimming Interface	0-10V(1-10V) Dimming 10V PWM Signal Dimming Resistance Dimming		
0-10V Dimming Specifications	250uA source current form driver, See dim curve for detail.		
10V PWM Signal	100Hz-3KHz PWM		
Resistance Dimming	100Kohm variable resistance		
Dimming range	10-100%		
Environment & Approbation			
Environmental Protection Rating	UL damp and dry		
Agency Approbations	UL8750,UL1310, CSA-C22.2 No.250.0-08,ENEC EN61347-1,EN61347-2-13 independent, EN62384, TUV EN60950-1		
Electromagnetic Compliance	FCC Title 47 Part 15 Class A Compliance to EN55015,EN61000-3-2 Class C(@100% Load);en6100-3-3 Compliance to EN61000-4-2,3,4,5,6,8,11;EN61547,EN55024, light industry level(surge 2KV), criteria A		
Audible noise	<24dB Class A		

All the specifications are typical and at 25 °C Tcase unless specified otherwise

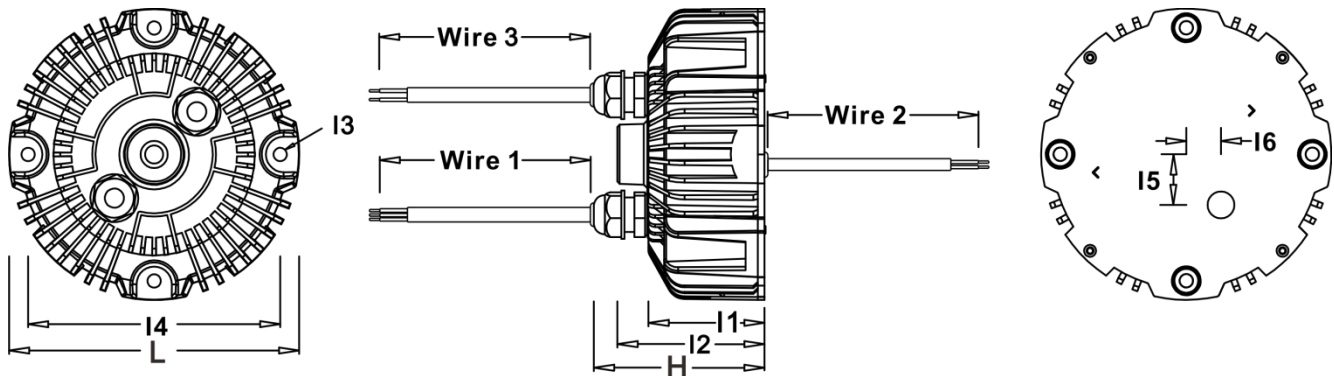
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Mechanical Specifications

Mechanical Drawing



Dimensions

	In.	mm
Case Length(L)	6.0	Ø 152
Case Height(H)	3.2	80.6
Mounting Holes(I1)	2.2	56.0
Mounting Holes(I2)	2.8	70.0
Mounting Holes(I3)	0.24	Ø 6.0
Mounting Holes(I4)	5.2	133
Mounting Holes(I5)	1.1	27.8
Mounting Holes(I6)	0.2	5
Input Wire(Wire1) SJTW 18AWG x 3C	11.8	300±20
Input Wire (Wire3 to Dimming Control) SJTW 18AWG x 2C	11.8	300±20
Output Wire(Wire2) SJTW 14AWG x 2C	11.8	300±20
Overall Length	6.0	Ø 152

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