

E-Dimming LED Driver

Design and Quality EASEIC of
USA

HBP-160-48D

E-Dimming DALI DRIVER

SPEC SHEET V2



160W 48V 3.30A DALI Dim HBP
HBP-160-48D
69316003

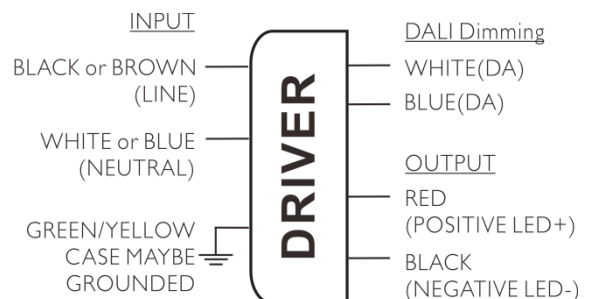


SELV IP67 RoHS

Features

- Universal AC input (90~305Vac)
- Designed for LED lighting applications
- Built-in DALI(IEC62386) dimming control protocol
- 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

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.

HBP-160-48D

E-Dimming DALI DRIVER

SPEC SHEET

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

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%			

Electrical Specifications

Ordering Information

Type	HBP-160-48D
Order Code	69316003
Full product name	E-Dimming 160W 48V 3.30A DALI 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		

HBP-160-48D

E-Dimming DALI DRIVER

SPEC SHEET

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	DALI(IEC62386)
0-10V Dimming Specifications	Sink Current <2mA
Dimming range	0-100%

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

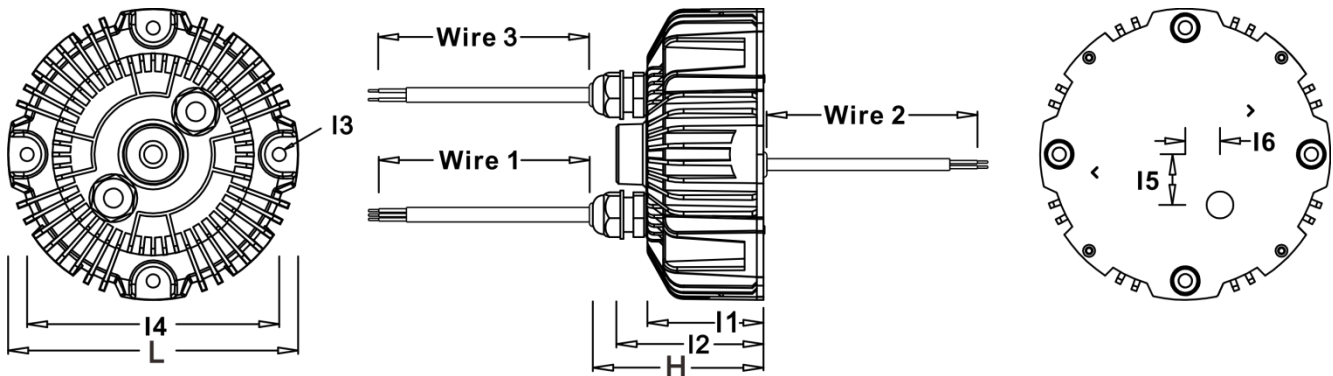
HBP-160-48D

E-Dimming DALI DRIVER

SPEC SHEET

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 18 AWG x 3C	11.8	300±20
Input Wire (Wire3 to Dimming Control) SJTW 18 AWG x 2C	11.8	300±20
Output Wire(Wire2) SJTW 18 AWG x 2C	11.8	300±20
Overall Length	6.0	Ø 152

EASEIC

© Copyright 2013 EASEIC INC.
All rights reserved. Rev A1.0
Data is subject to change without notice.
www.easeic.com

Easeic Inc.

27 Hall Street, Brooklyn, NY 11205
Tel.: 1-718-243-9388
Fax: 1-718-243-9403
Customer Support
Customer Care: 1-646-4029788
E-Mail: ny@easeic.com

Easeic Asia Limited.

Rm. 19C, Lockhart Ctr., 301- 307
Lockhart Rd., Wan Chai, Hong
Kong
Tel.: 852-6955-8075
Fax: 852-6915-3639
E-Mail: info@easeic.com

Easeic Sci-tech Co., Ltd.

No. 37 Huancun Xi Rd.,
Liangtian Industrial Area,
Baiyuan District, Guangzhou,
China
Tel.: 86-20-8230-9676
Fax: 86-20-8230-9677
E-Mail: sales@easeic.com