



# DIM01 SERIES

## DC/DC LED DRIVER WITH DALI INTERFACE MODULE



### Features

- \* Compatible to the DALI Standard
- \* Provides Two Sets of LED Lighting Synchronization Controls
- \* Adjustable Output Current
- \* Waterproof design for DIM01HXXXW
- \* Efficiency to 95%.



DIM01HXXXW



DIM01L&DIM01H

MODEL Number	Input Voltage Range Note.1	Output Operating Voltage Note.1	Output Rated Current	Output Rated Power (max.)	Ripple and Noise(max.) Note.5	Efficiency (Typical) Note.6
DIM01L	12-30Vdc	Vout1=10-26Vdc	1000,700,550mA <b>Note.7</b>	26W	300mVpp	93%
		Vout2=10-26Vdc		26W		
DIM01H	12-60Vdc	Vout1=10-56Vdc	700,550,350mA <b>Note.7</b>	39.2W	400mVpp	95%
		Vout2=10-56Vdc		39.2W		
DIM01H100W	12-60Vdc	Vout1=10-56Vdc	1000mA	56W	400mVpp	95%
		Vout2=10-56Vdc		56W		
DIM01H070W	12-60Vdc	Vout1=10-56Vdc	700mA	39.2W	400mVpp	95%
		Vout2=10-56Vdc		39.2W		
DIM01H055W	12-60Vdc	Vout1=10-58Vdc	550mA	31.9W	400mVpp	95%
		Vout2=10-58Vdc		31.9W		
DIM01H035W	12-60Vdc	Vout1=10-58Vdc	350mA	20.3W	400mVpp	95%
		Vout2=10-58Vdc		20.3W		

# Specifications

## INPUT SPECIFICATIONS:

Input Voltage ..... DIM01H ..... 12-60Vdc  
 DIM01L ..... 12-30Vdc  
 Input Surge Voltage (1second) ..... 65Vdc max.

## OUTPUT SPECIFICATIONS:

Constant Current Accuracy(Note.2) ..... ±5% max.  
 Current Line Regulation (Note.3) ..... ±5% max.  
 Current Load Regulation (Note.4) ..... ±5% max.  
 Short Circuit Protection ..... Auto Recovery  
 Start up time ..... 10ms max.

## GENERAL SPECIFICATIONS:

Efficiency ..... See Table  
 Isolation Voltage ..... Non-isolation  
 Switching Frequency ..... 270KHz typ.  
 Operating Ambient Temperature ..... -40°C~85°C(See Derating Curve)  
 Cooling ..... Natural Convection  
 Storage Temperature ..... -55°C to +105°C  
 Humidity ..... 95% RH max. Non condensing  
 MTBF ..... MIL-STD-217F, GB, 25°C, Full Load ..... 400K hrs typ.  
 Dimensions ..... 3.31×1.89×0.70 inches (84.0×48.0×17.8 mm)  
 Weight ..... DIM01HXXXW .....100g  
 DIM01H&DIM01L .....40g  
 Case Material .....Plastic Case

## DALI Control:

Output Current ..... 10%-100%

## Note:

- Nominal Input Voltage: 48Vdc(DIM01H), 24Vdc(DIM01L)  
 Nominal output Voltage: 36Vdc(DIM01H), 18Vdc(DIM01L)
- 4Vdc < Vin-Vout < 30Vdc to keep current accuracy.
- Current Line regulation is measured from high line and Low Line.
- Current Load regulation is measured from high to low operating voltage.
- Ripple and Noise are measured at rated current, Nominal Input and Nominal output And 20MHz bandwidth with a 0.1uF ceramic capacitor.
- Measured at rated current, Nominal Input and Nominal output.
- Ex. using a jumper to connect PIN1 and PIN6 of CN3, CN4 to set output rated current to 1000mA for DIM01L. And using a jumper to connect PIN2 and PIN5 of CN3, CN4 to set output rated current to 550mA for DIM01H.  
 Where the output rated current don't need to be the same for Vout1,Vout2.

# DIM01 Series Derating Curve

### DIM01L Derating Curve



### DIM01H Derating Curve



### DIM01HXXXW Derating Curve



MODEL	CN3,CN4	Vout1,Vout2 Output Rated Current
	PIN1,PIN6 Short	1000mA

**Mechanical Specification**

All Dimensions In Inches[mm]

Tolerance Inches:x.xx= ±0.02, x.xxx= ±0.010  
 Millimeters:x.x= ±0.5, x.xx=±0.25



**DALI installation cable**

**Installation Drawing**

Cable length	min. cable cross-section (AWG)
up to 100 m (325 ft)	0.5 mm <sup>2</sup> (#20)
100...150 m (325...492 ft)	0.75 mm <sup>2</sup> (#18)
150...300 m (492...984 ft)	1.5 mm <sup>2</sup> (#16)

