



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	26W	300mVpp	93%
		Vout2=10-26Vdc	Note.7	26W		
DIM01H	12-60Vdc	Vout1=10-56Vdc	700,550,350mA	39.2W	400mVpp	95%
		Vout2=10-56Vdc	Note.7	39.2W		
DIM01H100W	12-60Vdc	Vout1=10-56Vdc	1000mA	56W	400mVpp	95%
		Vout2=10-56Vdc		56W		
DIM01H070W		Vout1=10-56Vdc	700mA	39.2W	400mVpp	95%
		Vout2=10-56Vdc		39.2W		
DIM01H055W		Vout1=10-58Vdc	550mA	31.9W	400mVpp	95%
		Vout2=10-58Vdc		31.9W		
DIM01H035W		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	DIM01HXXXW100g DIM01H&DIM01L40g
Case Material	Plastic Case

DALI Control:

Output Current 10%-100%

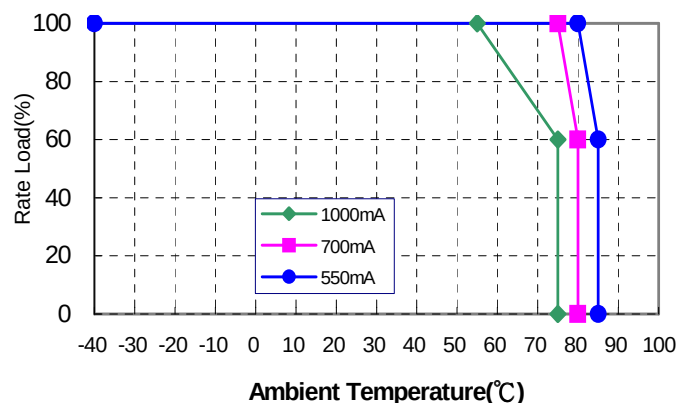
Note:

1. Nominal Input Voltage: 48Vdc(DIM01LH), 24Vdc(DIM01L)
Nominal output Voltage: 36Vdc(DIM01H), 18Vdc(DIM01L)
2. $4Vdc < V_{in} - V_{out} < 30Vdc$ to keep current accuracy.
3. Current Line regulation is measured from high line and Low Line.
4. Current Load regulation is measured from high to low operating voltage.
5. Ripple and Noise are measured at rated current, Nominal Input and Nominal output And 20MHz bandwidth with a 0.1uF ceramic capacitor.
6. Measured at rated current, Nominal Input and Nominal output.
7. 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.

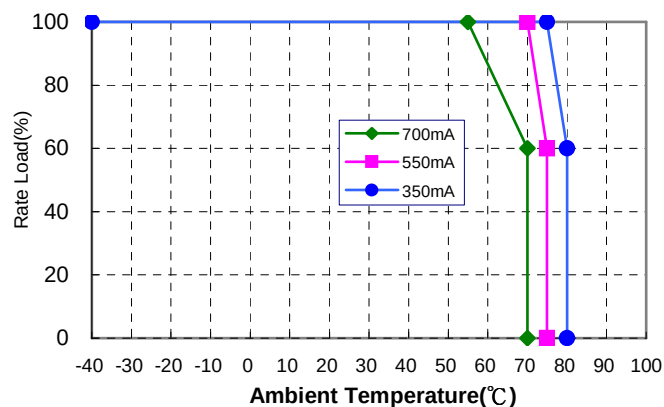
MODEL	CN3,CN4	Vout1,Vout2 Output Rated Current
	PIN1,PIN6 Short	1000mA

DIM01 Series Derating Curve

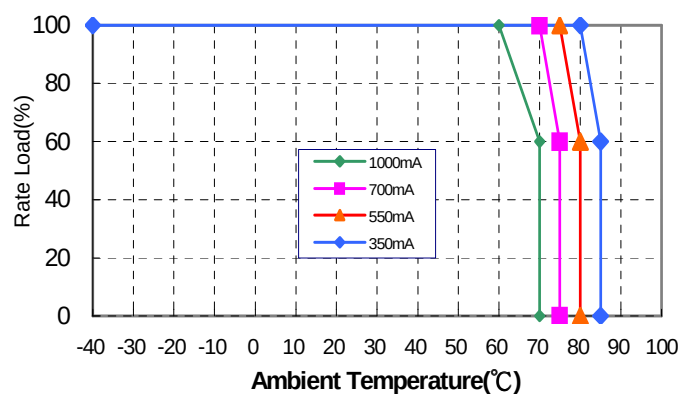
DIM01L Derating Curve



DIM01H Derating Curve



DIM01HXXXW Derating Curve

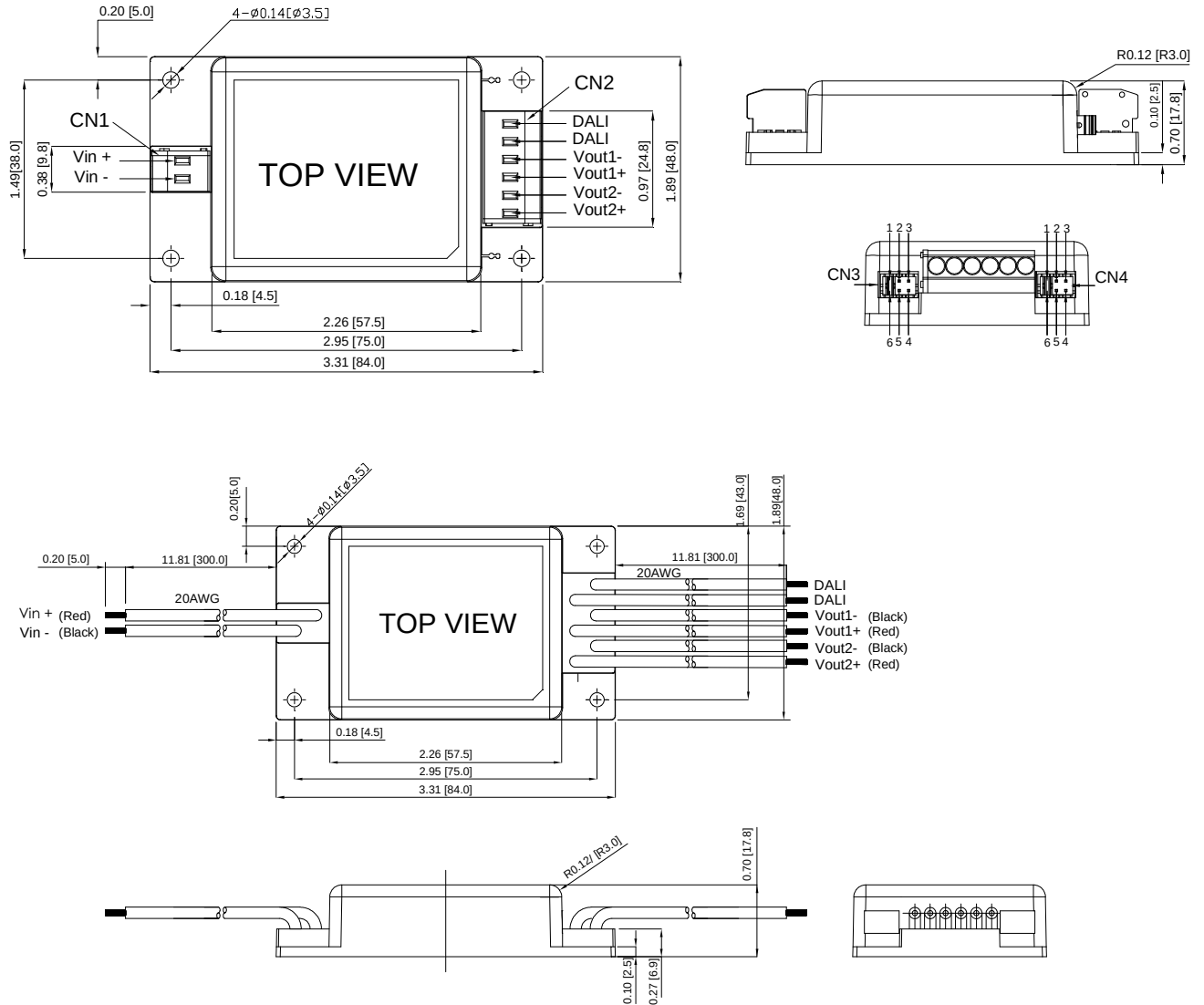


Mechanical Specification

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

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

Installation Drawing

DALI Controller

