



DLD SERIES

57 WATT

BUCK LED DRIVER



Features

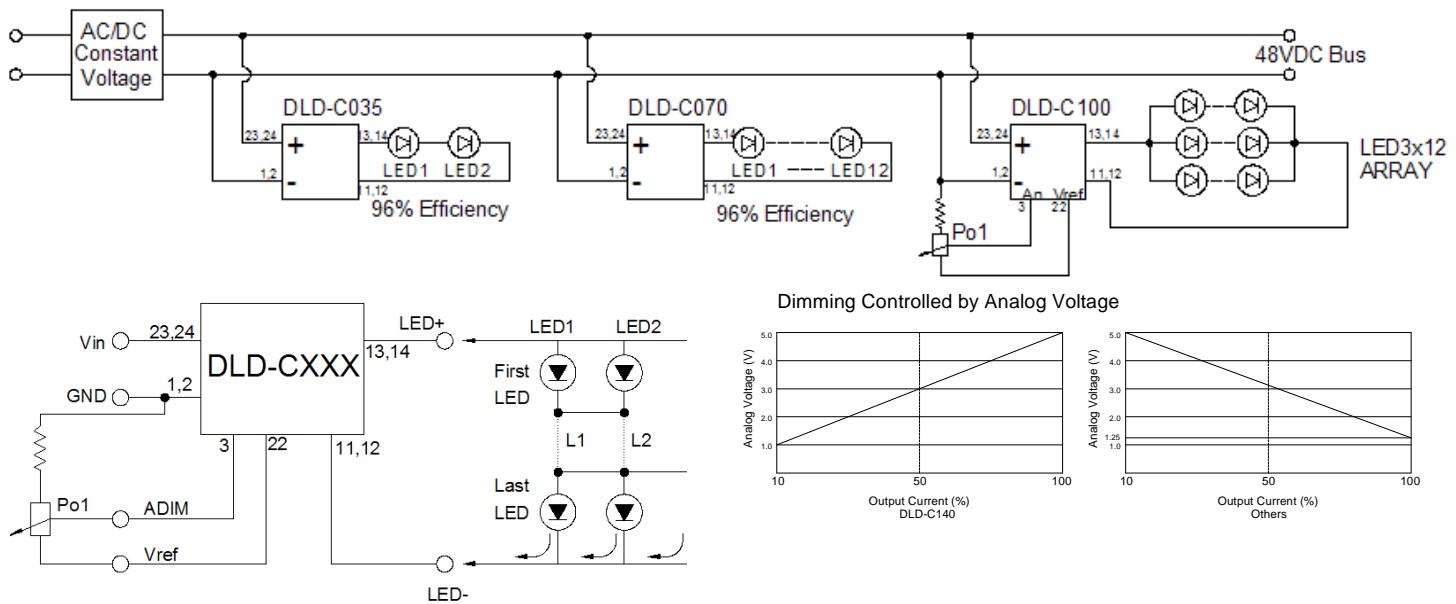
- * LED Driver Current up to 1400mA
- * Constant Current Output
- * Digital PWM Dimming
- * Analog Dimming Control
- * High Efficiency up to 96%
- * Continuous Short Circuit Protection
- * DIP16 package and Wired Version
- * High Reliability
- * IP67 Protection



MODEL	Input Voltage Range	Output Operating Voltage	Output Rated Current	Output Rated Power	Ripple and Noise (max.) Note2	Efficiency (Typical) Note3
DLD-C035	4.5-60Vdc	2-57VDC	350mA	20W	300mVpp	96%
DLD-C070	4.5-60Vdc	2-57VDC	700mA	40W	500mVpp	96%
DLD-C100	4.5-60Vdc	2-57VDC	1000mA	57W	500mVpp	96%
DLD-C140	10-36Vdc	8-33VDC	1400mA	46.2W	500mVpp	96%

Note:

1. 3V < Vin - Vout < 30Vdc, to keep current accuracy. Nominal Input Voltage: 48Vdc, 28Vdc (C140 models)
2. Ripple and Noise are measured at rated current, Nominal Input and 36Vdc or 24Vdc (C140 models) output and 20MHz bandwidth with a 0.1uF ceramic capacitor.
3. Measured at rated current, Nominal Input and 36Vdc or 24Vdc (C140 models) output.
4. Acceptable customer modifications.



Specifications

All specifications are Typical at nominal line , full load and 25°C unless otherwise noted

INPUT SPECIFICATIONS:

Input Voltage	1400mA/others	10-36VDC/4.5-60Vdc
Input Surge Voltage (1second) ...	1400mA/others	50Vdc/65Vdc max.
Input Filter	Capacitor
Under Voltage Lockout	Power up	8.0Vdc/4.0Vdc typ.
	Power down	6.9Vdc/3.7Vdc typ.

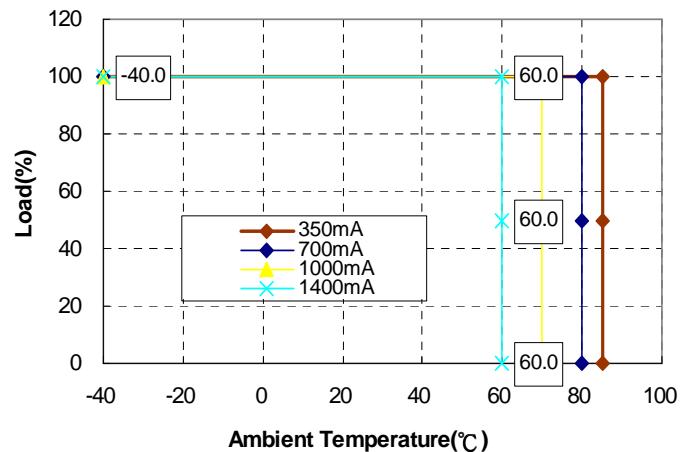
OUTPUT SPECIFICATIONS:

Constant Current Accuracy (note1)	±5% max.
Current Line Regulation (note 2)	±5% max.
Current Load Regulation (note 3)	±5% max.
Short Circuit Protection	Constant Current with Auto Recovery
Start up time	60ms max.

GENERAL SPECIFICATIONS:

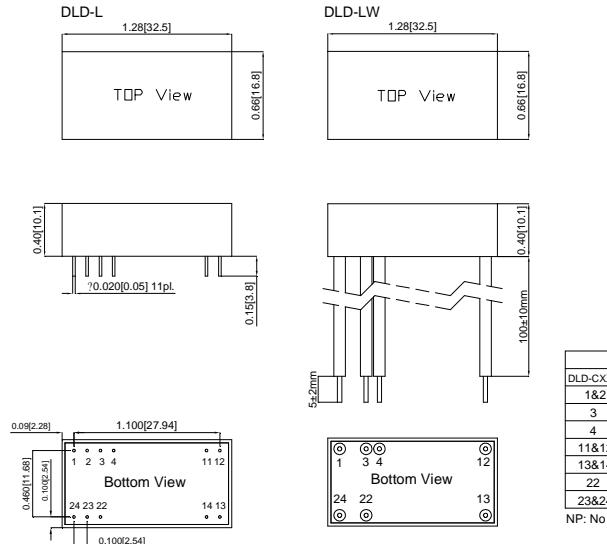
Efficiency	See Table
Temperature Coefficient	±0.05%/°C
Isolation Voltage	Non-isolation
Switching Frequency ... 1400mA/Others	50-500KHz/ 300Khz typ.
Operating Ambient Temperature	-40 ~ 85°C see Derating Curve
Case Temperature	100°C max.
Cooling	Natural Convection
Storage Temperature	-55 ~ 125°C
Operating Humidity	10%~95%RH non-condensing
Operating Altitude	Sea Level to 3000m
Vibration	0~500Hz, 2G 60min./1cycle, period for 3hours, 3 axes
Shock	30g peak, half sine, 6 axes
MTBF, L-HDBK-217F (25°C)	>1.6Mhrs
Dimensions	1.28x0.66x0.40 Inches(32.5x16.8x10.2 mm)
Weight	18g.
Case Material	Plastic Case

DLD Derating Curve



Mechanical Specification

NOTE: Pin Size is 0.020"inch (0.5mm) DIA ±0.05
All Dimensions In Inches(mm)
Tolerance : Inches:x.xx=±0.02, x.xxx=±0.010
Millimeters:x.x=±0.5, x.xx=±0.25



DLD Connections		
DLD-CXXX	DLD-CXXXLW	Function
1&2	1(Black)	-V Input
3	3(White)	Analogue DIMming
4	4(Green)	PWM/ON/OFF
11&12	12(Blue)	-V Output
13&14	13(Yellow)	+V Output
22	22(Brown)	Vref/NP
23&24	24(Red)	+V Input

NP: No Pin for DLD-C140