



ALD SERIES
57 WATT
BUCK LED DRIVER with DALI

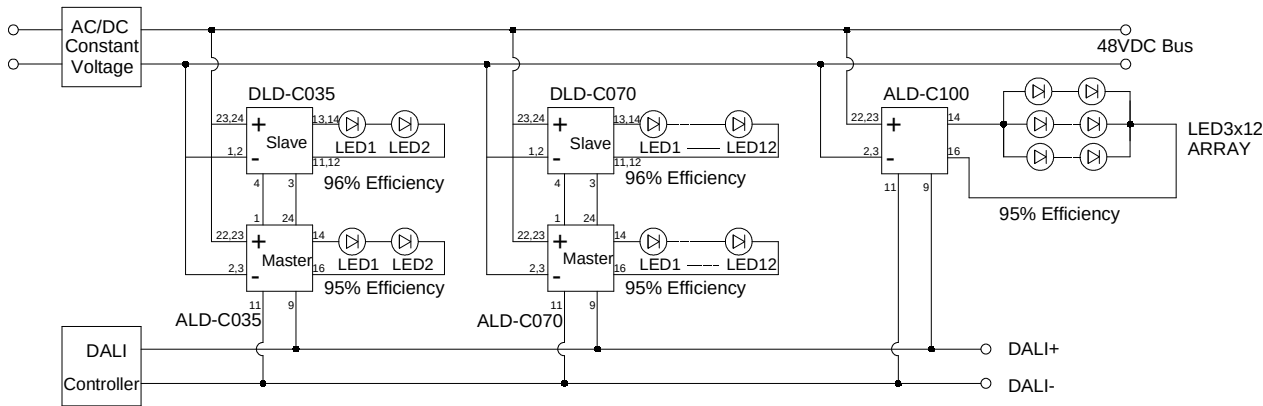


Features

- * LED Driver Current up to 1400mA
- * Constant Current Output
- * Digital Address Lighting Interface (DALI)
- * High Efficiency up to 95%
- * Continuous Short Circuit Protection
- * DIP24 package
- * 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
ALD-C035(LW)	4.5-60Vdc	2-57VDC	350mA	20W	300mVpp	95%
ALD-C070(LW)	4.5-60Vdc	2-57VDC	700mA	40W	500mVpp	95%
ALD-C100(LW)	4.5-60Vdc	2-57VDC	1000mA	57W	500mVpp	95%
ALD-C140(LW)	10-36Vdc	8-33VDC	1400mA	46.2W	500mVpp	95%

- Note:
1. $3V < V_{in} - V_{out} < 30V_{dc}$, 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. When used in the DALI system should be higher than 5.5V input voltage.
 5. Acceptable customer modifications.



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Specifications

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

INPUT SPECIFICATIONS:

Input Voltage 1400mA/other 10-36VDC/4.5-60Vdc
Input Surge Voltage (1second) 1400mA/other 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:

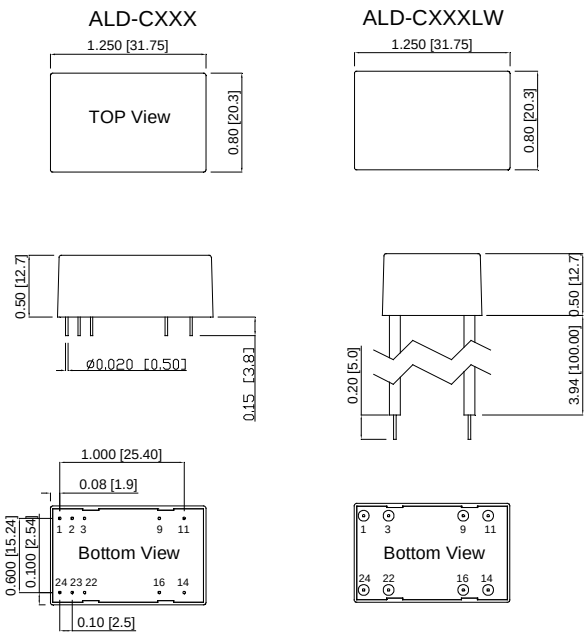
Constant Current Accuracy (note1) ±5% max.
Current Line Regulation (note 2) ±5% max.
Current Load Regulation (note 3) ±5% max.
Short Circuit Protection Constant Current with Auto Recovery
Start up time 60ms max.

GENERAL SPECIFICATIONS:

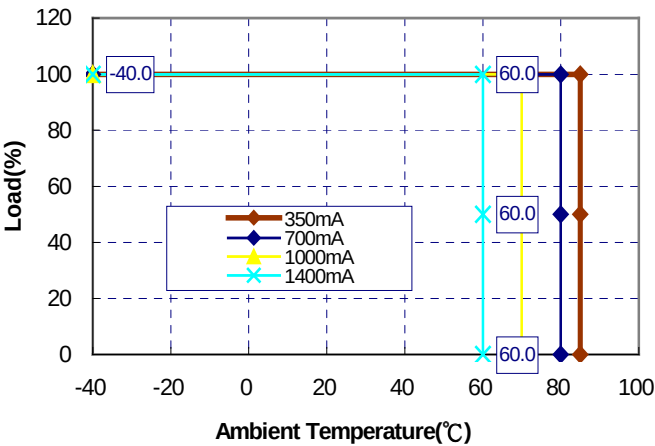
Efficiency See Table
Temperature Coefficient ±0.05%/°C (0~50°C)
Isolation Voltage Non-isolation
Switching Frequency ... 1400mA/Others 50-500KHz/ 300KHz typ.
Operating Ambient Temperature -40 ~ 85°C see Derating Curve
Case Temperature 100°C max.
Cooling Natural Convection
Storage Temperature -55 ~ 125°C
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, MIL-HDBK-217F (25°C) >1.6Mhrs
Dimensions 1.25x0.80x0.50 Inches(31.8x20.3x12.7 mm)
Weight 18g
Case Material Plastic Case

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



ALD Derating Curve



DALI Control:

Output Current Range 10%-100%

SAFETY AND EMISSIONS:

EMI EN55022/EN55015 Class B
EMS EN61547,EN61000-4-2,3,4,5,6

NOTE:

1. 3V<Vin-Vout <30Vdc, to keep current accuracy.
2. Current Line regulation is measured from High Line to Low Line.
3. Current Load regulation is measured from high to low operating voltage.
4. When used in the DALI system should be higher than 5.5V input voltage.
5. Acceptable customer modifications.

ALD CONNECTION		
ALD-CXXX	ALD-CXXXLW	Function
1	1 (Green)	PWM/ON/OFF
2&3	3 (Black)	-V Input
9	9 (Brown)	DA
11	11 (Brown)	DA
14	14 (Yellow)	+V Output
16	16 (Blue)	-V Output
22&23	22 (Red)	+V Input
24	24 (White)	Analogue Dimming

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