



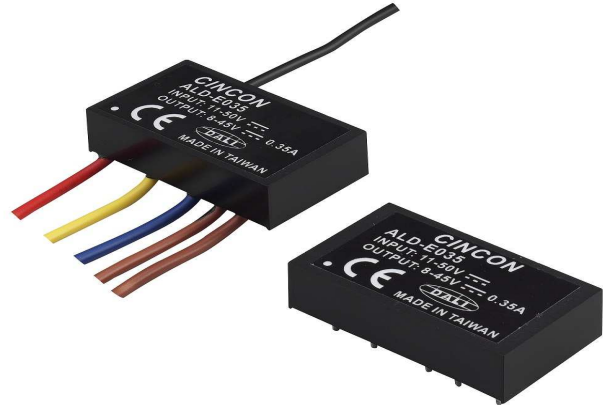
# ALD-E SERIES

## 50.4 WATT

### BUCK LED DRIVER with DALI

#### Features

- \* LED Driver Current up to 1400mA
- \* Constant Current Output
- \* Digital Address Lighting Interface (DALI)
- \* DALI Dimming Range 1-100%
- \* High Efficiency up to 95%
- \* Continuous Short Circuit Protection
- \* High Reliability
- \* IP65 Protection (note7)

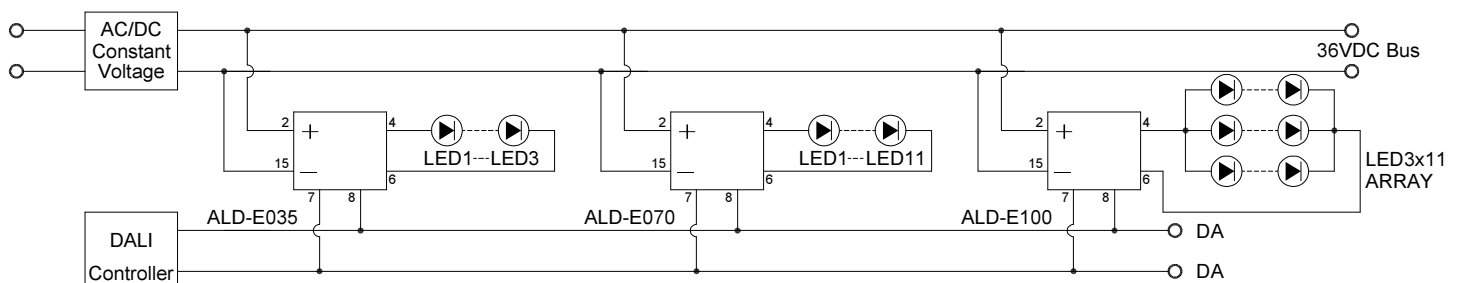


| MODEL    | Input Voltage Range | Output Operating Voltage | Output Rated Current | Output Rated Power | Ripple and Noise (max.) note2 | Efficiency (TYPICAL) note3 |
|----------|---------------------|--------------------------|----------------------|--------------------|-------------------------------|----------------------------|
| ALD-E035 | 11 – 50 VDC         | 8-45 VDC                 | 350 mA               | 15.75 W            | 300 mVpp                      | 95%                        |
| ALD-E050 | 11 – 50 VDC         | 8-45 VDC                 | 500 mA               | 22.50 W            | 500 mVpp                      | 95%                        |
| ALD-E070 | 11 – 50 VDC         | 8-45 VDC                 | 700 mA               | 31.50 W            | 500 mVpp                      | 95%                        |
| ALD-E100 | 11 – 50 VDC         | 8-45 VDC                 | 1050 mA              | 47.25 W            | 500 mVpp                      | 95%                        |
| ALD-E140 | 11 – 40 VDC         | 8-36 VDC                 | 1400 mA              | 50.4 W             | 500 mVpp                      | 95%                        |

Note:

1.  $3V < V_{in} - V_{out} < 20V_{dc}$  to Keep Current Accuracy, Nominal Input Voltage: 36Vdc.
2. Ripple and Noise are Measured at Rated Current, Nominal Input and 33Vdc Output and 20MHz Bandwidth with a 0.1uF Ceramic Capacitor.
3. Measured at Rated Current, Nominal Input and 33Vdc output.
4. Acceptable Customer Modifications.

#### Installation Drawing



### ALD Derating Curve

| ALD CONNECTION |            |                  |
|----------------|------------|------------------|
| ALD-EXXX       | ALD-EXXXLW | Function         |
| 2              | 2 (Red)    | +V Input         |
| 4              | 4 (Yellow) | +V Output        |
| 6              | 6 (Blue)   | -V Output        |
| 7              | 7 (Brown)  | DA               |
| 8              | 8 (Brown)  | DA               |
| 12             | NC         | Analogue Dimming |
| 14             | NC         | PWM DIM          |
| 15             | 15 (Black) | -V input         |