



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



## LDS70 Series

### LED Lighting Power Supply - Class 2

**Total Power:** 70 Watts  
**# of Outputs:** Single



### Special Features

- Constant Current & Constant Voltage operation
- Dimming options
- Free-Air rated - No forced air necessary for cooling

### Compliance

- Class 2 Outputs
- IP64 to IP67 Water Protection
- CISPR 15 / FCC Part 15 EMI Performance
- Class C Harmonics
- < 1.0 W No-load power
- > 0.9 Power Factor

### Safety

- EN 61347-2-13
- UL 1310 / 8750
- CSA C22.2 No. 107.1
- CE Mark (LVD)

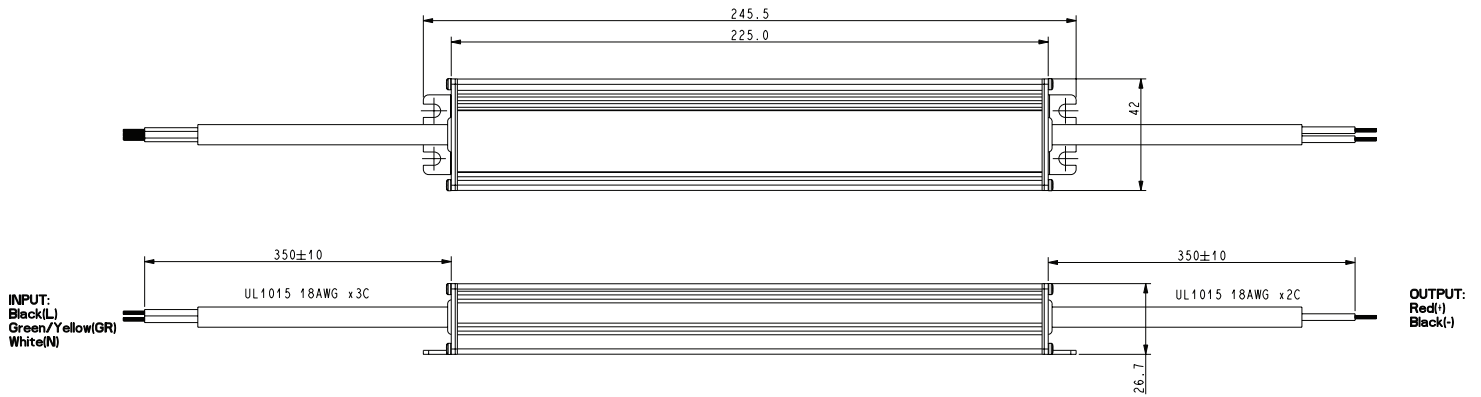
## Electrical Specifications

| Input                  |  |
|------------------------|--|
| Input range:           | 100 - 240 Vac (U models); 120-277 Vac (H models)                 |
| Input frequency:       | 47 - 63 Hz   |
| Inrush current:        | < 50 A max., cold start @ 25 °C                                  |
| Leakage current:       | 750 µA, at 264 Vac 50/60 Hz                                      |
| Input power (no-load): | < 1.0 W, at no load  |
| Input power (max):     | < 82 W, at full load   |
| Input fusing:          | Internally fused   |
| EMI/RFI:               | CISPR 15<br>FCC Part 15  |
| Efficiency (typical):  | 88% - 230 Vac<br>87% - 115 Vac                                   |
| Output                 |  |
| Constant current:      | Programmable current levels. Refer to model table for details    |
| Constant voltage:      | No load to Full load operation. Refer to model table for details |
| Output power:          | 70 W maximum (60 W for 12 V). Class 2 rated outputs              |
| Ripple voltage:        | < 2%   |
| Control and Protection |  |
| Current limit:         | Programmable. Refer to model table for details                   |
| Protection:            | Short Circuit<br>Overvoltage<br>Overtemperature                  |

## Environmental Specifications

| Criteria            | Specification             | Reference                              |
|---------------------|---------------------------|--|
| Power Factor        | > 0.9                     | Energy Star                            |
| Harmonics           | Class C                   | IEC 61000-3-2                          |
| THD - Input Current | < 20%                     | ANSI C82.11                            |
| Surge Immunity      | Level 3<br>6 kV ring wave | IEC 61000-4-5<br>ANSI C62.41           |
| EMC Compliance      |                           | IEC 61000-4-2, -3, -4, -5, -6, -8, -11 |
| Temperature (case)  | -40 °C to 80 °C           | Operating                              |
| Ingress Protection  | IP64 through IP67         | Refer to model table for details       |

## Mechanical Drawing



## Mechanical Miscellaneous

| Criteria      | Specification | Reference |
|---------------|---------------|-----------|
| Input Wiring  | 300 mm        | 3-wire    |
| Output Wiring | 300 mm        | 4-wire    |
| Weight        | 370 grams     |           |

### Ordering Information

| Model Number | Rated Output Voltage | Rated Output Current | Current Adjust | Dimming Interface | IP Rating | Status      |
|--------------|----------------------|----------------------|----------------|-------------------|-----------|-------------|
| LDS70-12-U01 | 12 Vdc               | 5.0 Adc              | DIP Switch     | 2-level           | IP64      | Coming Soon |
| LDS70-12-H03 | 12 Vdc               | 5.0 Adc              |                | 0 - 10 V          | IP67      | Coming Soon |
| LDS70-58-U00 | 58 Vdc               | 1.2 Adc              |                | None              | IP67      | Released    |
| LDS70-58-U01 | 58 Vdc               | 1.2 Adc              | DIP Switch     | 2-level           | IP64      | Coming Soon |
| LDS70-58-H03 | 58 Vdc               | 1.2 Adc              |                | 0 - 10 V          | IP67      | Coming Soon |

### Americas

5810 Van Allen Way  
Carlsbad, CA 92008  
USA  
Telephone: +1 760 930 4600  
Facsimile: +1 760 930 0698

### Europe (UK)

Waterfront Business Park  
Merry Hill, Dudley  
West Midlands, DY5 1LX  
United Kingdom  
Telephone: +44 (0) 1384 842 211  
Facsimile: +44 (0) 1384 843 355

### Asia (HK)

14/F, Lu Plaza  
2 Wing Yip Street  
Kwun Tong, Kowloon  
Hong Kong  
Telephone: +852 2176 3333  
Facsimile: +852 2176 3888

## Current Adjust and Dimming Description

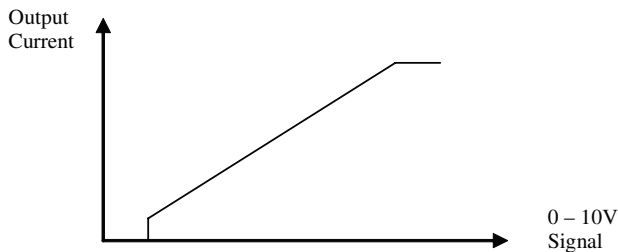
### DIP Switch

| Switch 1 | Switch 2 | -12 Model | -58 Model |
|----------|----------|-----------|-----------|
| ON       | ON       | 5.00 Adc  | 1.2 Adc   |
| OFF      | ON       | 3.75 Adc  | 0.9 Adc   |
| ON       | OFF      | 2.50 Adc  | 0.6 Adc   |
| OFF      | OFF      | 1.25 Adc  | 0.3 Adc   |

### 2 Level - External Switch between Purple & Grey Wires

| Switch | Open Current          |
|--------|-----------------------|
| CLOSED | At Programmed Level   |
| OPEN   | At 20% of Rated Level |

### 0 - 10 V Future Models Between Purple & Grey Wires



For global contact, visit:

[www.Emerson.com/EmbeddedPower](http://www.Emerson.com/EmbeddedPower)  
[techsupport.embeddedpower@emerson.com](mailto:techsupport.embeddedpower@emerson.com)

While every precaution has been taken to ensure accuracy and completeness in this literature, Emerson Network Power assumes no responsibility, and disclaims all liability for damages resulting from use of this information or for any errors or omissions.

### Emerson Network Power.

The global leader in enabling business-critical continuity.

- AC Power
- Connectivity
- DC Power
- Embedded Computing
- **Embedded Power**
- Monitoring
- Outside Plant
- Power Switching & Controls
- Precision Cooling
- Racks & Integrated Cabinets
- Services
- Surge Protection

### EmersonNetworkPower.com

Emerson Network Power and the Emerson Network Power logo are trademarks and service marks of Emerson Electric Co.  
©2010 Emerson Electric Co.