

阅读申明

- 1.本站收集的数据手册和产品资料都来自互联网，版权归原作者所有。如读者和版权方有任何异议请及时告之，我们将妥善解决。
- 2.本站提供的中文数据手册是英文数据手册的中文翻译，其目的是协助用户阅读，该译文无法自动跟随原稿更新，同时也可能存在翻译上的不当。建议读者以英文原稿为参考以便获得更精准的信息。
- 3.本站提供的产品资料，来自厂商的技术支持或者使用者的心得体会等，其内容可能存在描述上的差异，建议读者做出适当判断。
- 4.如需与我们联系，请发邮件到marketing@iczoom.com，主题请标有“数据手册”字样。

Read Statement

1. The datasheets and other product information on the site are all from network reference or other public materials, and the copyright belongs to the original author and original published source. If readers and copyright owners have any objections, please contact us and we will deal with it in a timely manner.
2. The Chinese datasheets provided on the website is a Chinese translation of the English datasheets. Its purpose is for reader's learning exchange only and do not involve commercial purposes. The translation cannot be automatically updated with the original manuscript, and there may also be improper translations. Readers are advised to use the English manuscript as a reference for more accurate information.
3. All product information provided on the website refer to solutions from manufacturers' technical support or users the contents may have differences in description, and readers are advised to take the original article as the standard.
4. If you have any questions, please contact us at marketing@iczoom.com and mark the subject with "Datasheets" .

DLG Series



- AC Input LED Driver
- Constant Voltage & Current Operation
- High Power Factor
- High Efficiency
- Water Proof to IP67
- 90-305 VAC Input Voltage Range
- 3 Year Warranty

Specification

Input

Input Voltage	• 90-305 VAC, see derating curve
Input Frequency	• 47-63 Hz
Input Current	• 50 W: 1.0 A at 115 VAC, 0.5 A at 230 VAC, 75 W: 1.2 A at 115 VAC, 0.6 A at 230 VAC, 100 W: 1.4 A at 115 VAC, 0.7 A at 230 VAC, 150 W: 2.0 A at 115 VAC, 1.0 A at 230 VAC
Inrush Current	• 65 A at 230 VAC, cold start +25 °C
Power Factor	• >0.94 at 230 VAC, full load
Earth Leakage Current	• DLG50/75: 500 µA max at 230 VAC DLG100/150: 750 µA max at 230 VAC
No Load Input Power	• 0.6 W max at 230 VAC
Input Protection	• DLG50/75 T2.5A/300V fuse fitted in line, DLG100 T3.15A/300V fuse fitted in line, DLG150 T4A/300V fuse fitted in line

Output

Output Voltage	• See table
Minimum Load	• No minimum load required
Start Up Delay	• 1.5 s max at 115 VAC
Hold Up Time	• DLG50/75: No hold up DLG100/150: 16 ms minimum
Line Regulation	• ±0.5%
Load Regulation	• ±1.0% in constant voltage mode, ±5.0% in constant current mode
Turn On Overshoot	• 5% max
Transient Response	• 5% maximum deviation, recovery to within 1% in 10 ms for a 50% load change
Ripple & Noise	• DLG50/75 ⁽¹⁾ DLG100/150: 150 mV pk-pk up to 36 V output, 200 mV for 48 V output, 240 mV for ≥54 V output (see note 2)
Overvoltage Protection	• 110-142%, recycle mains to reset, only on DLG100 & DLG150 versions
Overtemperature Protection	• Unit shuts down, recycle mains to reset
Overload Protection	• 105% maximum, auto recovery
Short Circuit Protection	• Trip and restart (hiccup mode)
Temperature Coefficient	• 0.04%/°C

Notes

1. DLG50/75 use a topology which results in increased levels of mains frequency related ripple. Contact technical sales for details.

General

Efficiency	• See table
Isolation	• 3750 VAC Input to Output 1880 VAC Input to Ground 500 VAC Output to Ground
Switching Frequency	• DLG50/75: 40-80 kHz DLG100/150: PWM 60-80 kHz, PFC 55-133 kHz
MTBF	• >200 kHrs to MIL-HDBK-217F at 25 °C, GB

Environmental

Operating Temperature	• DLG50/75: -40 °C to +60 °C (see derating curve), DLG100/150: -30 °C to +70 °C (see derating curve)
Operating Humidity	• 5-100% RH, non-condensing
Storage Temperature	• -40 °C to +80 °C
Operating Altitude	• 3000 m
Vibration	• 10-500 Hz, 2 g, 10 mins/cycle, 6 cycles in each of 3 axes

EMC & Safety

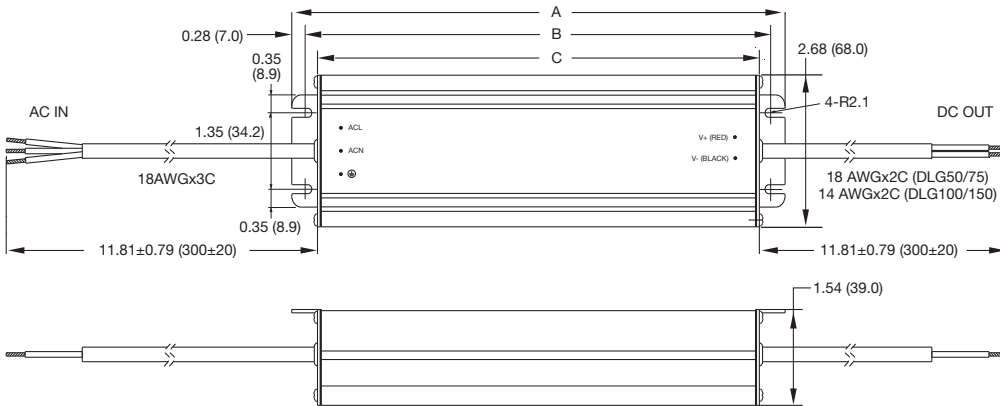
Emissions	• EN55015, class B conducted and radiated
Harmonic Currents	• EN61000-3-2, class A EN61000-3-2, class C for loads >80%
Voltage Flicker	• EN61000-3-3
ESD Immunity	• EN61000-4-2, 8 kV air and 4 kV contact, Perf Criteria A
Radiated Immunity	• EN61000-4-3, level 2 Perf Criteria A
EFT/Burst	• EN61000-4-4, level 2 Perf Criteria A
Surge	• EN61000-4-5, installation class 3, Perf Criteria A
Conducted Immunity	• EN61000-4-6, level 2 Perf Criteria A
Dips & Interruptions	• EN61000-4-11, 30% 10 ms, 60% 100 ms, 100% 5000 ms, Perf Criteria A, B, B
Safety Approvals	• EN61347, UL8750, CE Mark DLG100/150: IEC60950-1, EN60950-1, UL60950-1

Output Power	Output Voltage	Output Current	Output Voltage Range in Constant Current Mode	Efficiency ⁽¹⁾	Model Number
50 W	12.0 V	4.20 A	8.5-12.0 V	84.0%	DLG50PS12
50 W	24.0 V	2.10 A	19.0-24.0 V	86.0%	DLG50PS24
50 W	36.0 V	1.40 A	26.0-36.0 V	88.0%	DLG50PS36
50 W	48.0 V	1.05 A	35.0-48.0 V	88.0%	DLG50PS48
59 W	12.0 V	4.90 A	8.5-12.0 V	84.0%	DLG75PS12
75 W	24.0 V	3.15 A	19.0-24.0 V	86.0%	DLG75PS24
74 W	30.0 V	2.45 A	22.0-30.0 V	87.0%	DLG75PS30
75 W	36.0 V	2.10 A	26.0-36.0 V	88.0%	DLG75PS36
67 W	48.0 V	1.40 A	35.0-48.0 V	88.0%	DLG75PS48
75 W	54.0 V	1.40 A	37.0-54.0 V	88.0%	DLG75PS54
100 W	12.0 V	8.30 A	9.0-12.0 V	88.0%	DLG100PS12
100 W	15.0 V	6.60 A	10.0-15.0 V	88.0%	DLG100PS15 ⁽³⁾
100 W	24.0 V	4.20 A	14.0-24.0 V	90.0%	DLG100PS24
100 W	30.0 V	3.30 A	22.0-30.0 V	90.0%	DLG100PS30
100 W	36.0 V	2.80 A	26.0-36.0 V	90.0%	DLG100PS36
100 W	48.0 V	2.10 A	34.0-48.0 V	90.5%	DLG100PS48
100 W	57.0 V	1.75 A	43.0-57.0 V	90.5%	DLG100PS57 ⁽³⁾
132 W	12.0 V	11.00 A	9.0-12.0 V	88.0%	DLG150PS12
150 W	15.0 V	10.00 A	11.0-15.0 V	88.0%	DLG150PS15 ⁽³⁾
150 W	24.0 V	6.30 A	14.0-24.0 V	90.0%	DLG150PS24
150 W	30.0 V	5.00 A	22.0-30.0 V	90.0%	DLG150PS30
150 W	36.0 V	4.20 A	26.0-36.0 V	90.0%	DLG150PS36
150 W	48.0 V	3.20 A	33.0-48.0 V	90.0%	DLG150PS48
150 W	54.0 V	2.80 A	38.0-54.0 V	90.0%	DLG150PS54 ⁽³⁾

Notes

1. Typical efficiency at full load and 230 VAC input.
2. Measured using 12" twisted pair with 0.1 μF and 47 μF capacitors in parallel at 20 MHz bandwidth.
3. Not UL8750 approved.

Mechanical Details



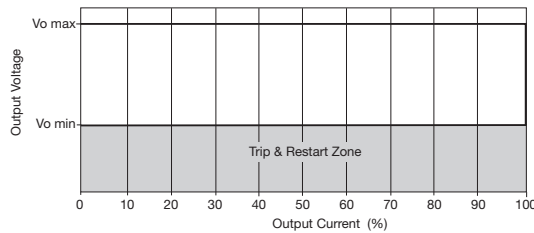
	DLG50/75	DLG100/150
A	6.93 (176.0)	8.74 (222.0)
B	6.38 (162.0)	8.19 (208.0)
C	6.03 (153.2)	7.83 (199.0)

Notes

1. All dimensions shown in inches (mm).
2. Weight: DLG50/75: 1.98 lbs (900 g)
DLG100/150 2.29 lbs (1040 g)
3. Tolerance: ±0.02 (0.5)

Application Notes

Constant Voltage / Constant Current Curve



Derating Curve

