









Features

- · Constant Voltage + Constant Current mode output
- Metal housing design with functional Ground
- · Built-in active PFC function
- Class 2 power unit
- No load / Standby power consumption < 0.5W
- IP67 / IP65 rating for indoor or outdoor installations
- Function options: output adjustable via potentiometer;
 3 in 1 dimming (dim-to-off); Smart timer dimming; DALI
- Typical lifetime>50000 hours
- 5 years warranty

Applications

- · LED street lighting
- · LED architectural lighting
- LED bay lighting
- LED floodlighting
- Type "HL" for use in Class I, Division 2 hazardous (Classified) location.

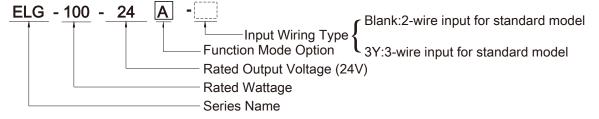
■ GTIN CODE

MW Search: https://www.meanwell.com/serviceGTIN.aspx

Description

ELG-100 series is a 100W AC/DC LED driver featuring the dual mode constant voltage and constant current output. ELG-100 operates from $100 \sim 360 \text{VAC}$ and offers models with different rated voltage ranging between 24V and 54V. Thanks to the high efficiency up to 91%, with the fanless design, the entire series is able to operate for $-40\,^{\circ}\text{C} \sim +90\,^{\circ}\text{C}$ case temperature under free air convection. The design of metal housing and IP67/IP65 ingress protection level allows this series to fit both indoor and outdoor applications. ELG-100 is equipped with various function options, such as dimming methodologies, so as to provide the optimal design flexibility for LED lighting system

■ Model Encoding





70~100W Constant Voltage + Constant Current LED Driver **ELG-100** series

SPECIFICATION

STANT CURRENT REGION Note.2 ED CURRENT ED POWER PLE & NOISE (max.) Note.3 TAGE ADJ. RANGE REENT ADJ. RANGE TAGE TOLERANCE Note.4 E REGULATION	4.0A 200VAC ~ 305VAC 96W 100VAC ~ 180VAC 70W 200mVp-p Adjustable for A/AB-Type only (via the built-in potentiometer) 21.6 ~ 26.4V Adjustable for A/AB-Type only (via the built-in potentiometer) 2 ~ 4A ±3.0% ±0.5% ±1.0% 1000ms, 80ms/115VAC 500ms, 100ms/230VAC 15ms/115VAC 10ms/230VAC 100 ~ 305VAC 142 ~ 431VDC continue, 320VAC for 24Hrs; 360VAC for 1Hr (Please refer to "STATIC CHARACTERISTIC" section)
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TAGE RANGE Note.5 QUENCY RANGE	100 ~ 305VAC 142 ~ 431VDC continue,320VAC for 24Hrs; 360VAC for 1Hr (Please refer to "STATIC CHARACTERISTIC" section)
QUENCY RANGE	(Please refer to "STATIC CHARACTERISTIC" section)
QUENCY RANGE	1
VER FACTOR	47 ~ 63Hz
	$PF \geqq 0.97/115 VAC, PF \geqq 0.95/230 VAC, PF \geqq 0.92/277 VAC@full load$
	(Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)
AL HARMONIC DISTORTION	THD< 20%(@load≥50%/115VC; @load≥60%/230VAC; @load≥75%/277VAC)
AL HARINONIC DISTORTION	(Please refer to "TOTAL HARMONIC DISTORTION(THD)" section)
ICIENCY (Typ.)	88%
CURRENT	1.1A / 115VAC
	COLD START 60A(twidth=850µs measured at 50% Ipeak) at 230VAC; Per NEMA 410
(2. /	
	3 units (circuit breaker of type B) / 6 units (circuit breaker of type C) at 230VAC
LEAKAGE CURRENT	<0.75mA / 277VAC
POWER CONSUMPTION	No load power consumption <0.5W for Blank / A / Dx / D2-Type
VER CONSOMITTION	Standby power consumption <0.5W for B / AB / DA-Type
R CURRENT	95 ~ 108%
	Constant current limiting, recovers automatically after fault condition is removed
ORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed
R VOLTAGE	28 ~ 34V
IN VOLIAGE	Shut down output voltage, re-power on to recover
R TEMPERATURE	Shut down output voltage, re-power on to recover
RKING TEMP.	Tcase=-40 ~ +90°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)
(. CASE TEMP.	Tcase=+90°C
RKING HUMIDITY	20 ~ 95% RH non-condensing
RAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH
IP. COEFFICIENT	±0.03%/°C (0~60°C)
RATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes
ETY STANDARDS	UL8750(type"HL"), CSA C22.2 No. 250.13-12; IEC/BS EN/EN/AS/NZS 61347-1, IEC/BS EN/EN/AS/NZS 61347-2-13 independent, BS EN/EN62384; EAC TP TC 004;BIS IS15885(for 24/24A/24B/24DA/36/36A/36B/42/42A/42ADA/42B/48/48B/54/54ADA/54B
SAFETY & DALI STANDARDS	only); GB19510.1, GB19510.14; IP65 or IP67;KC61347-1, KC61347-2-13 approved
	Compliance to IEC62386-101,102,(207 by request) for DA Type only
	I/P-O/P:3.75KVAC
LATION RESISTANCE	1/P-O/P, 1/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH
EMISSION	Compliance to BS EN/EN55015,BS EN/EN61000-3-2 Class C (@load ≥ 60%); BS EN/EN61000-3-3;GB/T 17743, GB17625.1; EAC TP TC 020; KC KN15,KN61547
IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11; BS EN/EN61547, light industry level (surge immunity Line-Earth 6KV, Line-Line 4KV EAC TP TC 020; KC KN15, KN61547
BF	2920.8K hrs min. Telcordia SR-332 (Bellcore) 282.9Khrs min. MIL-HDBK-217F (25° C)
ENSION	199*63*35.5mm (L*W*H)
KING	0.85kg; 16pcs/14.2kg/0.72CUFT
I parameters NOT specially men	ntioned are measured at 230VAC input, rated current and 25°C of ambient temperature.
CUS C.C. K. LUE R. DR. ER R.C. RIPRIPRI	URRENT SH CURRENT(Typ.) No. of PSUs on 16A UIT BREAKER (AGE CURRENT DAD / STANDBY ER CONSUMPTION R CURRENT RT CIRCUIT R VOLTAGE R TEMPERATURE KING TEMP. CASE TEMP. KING HUMIDITY P. COEFFICIENT ATION RTY STANDARDS STANDARDS STANDARDS STANDARDS STANDARDS STAND VOLTAGE ATION RESISTANCE EMISSION IMMUNITY ENSION KING

- 3. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
- 4. Tolerance : includes set up tolerance, line regulation and load regulation.
- 5. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.
- 6. Length of set up time is measured at first cold start. Turning ON/OFF the driver may lead to increase of the set up time.
- 7. The driver is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.

 (as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf)
- 8. This series meets the typical life expectancy of >50,000 hours of operation when Tcase, particularly (to point (or TMP, per DLC), is about 80°C or less.
- 9. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com
- 10. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).
- For any application note and IP water proof function installation caution, please refer our user manual before using. https://www.meanwell.com/Upload/PDF/LED EN.pdf
- 12. D2 models need to be programmed in the state of loading.
- 13.To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently connected to the mains.
- X Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx