





- · 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

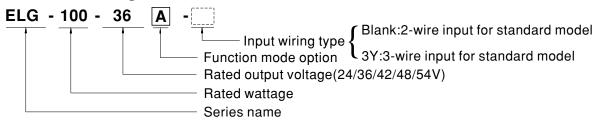
- LED street lighting
- LED architectural lighting
- · LED bay lighting
- · LED floodlighting
- Type "HL" for use in Class I, Division 2 hazardous (Classified) location.

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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 $100\sim360\text{VAC}$ 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 °C \sim +90 °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



Type	IP Level	Function	Note
Blank	IP67	Io and Vo fixed.	In Stock
Α	IP65	Io and Vo adjustable through built-in potentiometer.	In Stock
В	IP67	3 in 1 dimming function (0~10Vdc, 10V PWM signal and resistance)	In Stock
AB	IP65	Io and Vo adjustable through built-in potentiometer & 3 in 1 dimming function (0~10Vdc, 10V PWM signal and resistance)	In Stock
DA	IP67	DALI control technology.	In Stock
Dx	IP67	Built-in Smart timer dimming function by user request.	By request
D2	IP67	Built-in Smart timer dimming and programmable function.	In Stock

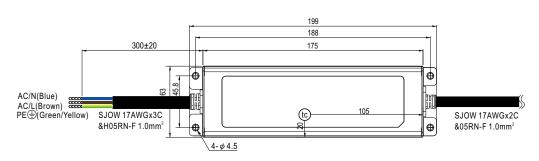


70~100W Constant Voltage + Constant Current LED Driver **ELG-100** series

SPECIFICATION

DC VOLTAGE CONSTANT CURRENT REGION Note.2	24V 12 ~ 24V	36V	42V	48V	54V		
CONSTANT CURRENT REGION Note.2	12 ~ 24V	40 001/					
	' · ·	18 ~ 36V	21 ~ 42V	24 ~ 48V	27 ~ 54V		
RATED CURRENT	4.0A	2.66A	2.28A	2A	1.78A		
	200VAC ~ 305VAC						
		95.76W	95 76W	96W	96.12W		
RATED POWER							
			7014	7014			
	70W	70W		-	70W		
RIPPLE & NOISE (max.) Note.3	200mVp-p	250mVp-p	250mVp-p	300mVp-p	350mVp-p		
VOLTAGE AD L DANGE	Adjustable for A/AB-Type	only (via the built-in pot	entiometer)				
VOLIAGE ADJ. RANGE	21.6 ~ 26.4V	32.4 ~ 39.6V	37.8 ~ 46.2V	43.2 ~ 52.8V	48.6 ~ 59.4V		
	Adjustable for A/AB-Type	only (via the built-in pote	entiometer)				
CURRENT ADJ. RANGE	2~4A	1.33 ~ 2.66A	1.14 ~ 2.28A	1 ~ 2A	0.89 ~ 1.78A		
VOLTAGE TOLERANCE Note 4					±2.0%		
					±0.5%		
					±0.5%		
				10.576	10.576		
HOLD UP TIME (Typ.)							
VOLTAGE RANGE Note 5							
TOEITIGE TOTAL	,						
FREQUENCY RANGE	47 ~ 63Hz						
DOWED EACTOR							
POWER FACTOR	(Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)						
	THD<20%(@load≥50%/115VC; @load≥60%/230VAC; @load≥75%/277VAC)						
TOTAL HARMONIC DISTORTION				- /			
EFFICIENCY (Tvp.)	88%	89%	90%	90%	91%		
				1277			
				r NEMΔ //10			
() ,	COLD START συΑ(twittin-οσυμε measured at συ% fpeak) at 230VAC; Per NEMA 410						
	3 units (circuit breaker of type B) / 6 units (circuit breaker of type C) at 230VAC						
LEAKAGE CURRENT	<0.75mA / 277VAC						
NO LOAD / STANDBY							
POWER CONSUMPTION							
OVED OUDDENT	95 ~ 108%						
OVER CURRENT	Constant current limiting, recovers automatically after fault condition is removed						
SHORT CIRCUIT	Hiccup mode, recovers a	utomatically after fault co					
	28 ~ 34V	41 ~ 48V	47 ~ 54V	54 ~ 62V	62 ~ 72V		
OVER VOLTAGE	20 017 11 107 11 12 12 12						
OVER TEMPERATURE							
	1 0			" section)			
	-						
·							
TEMP. COEFFICIENT	±0.03%/°C (0 ~ 60°C)						
VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes						
UL8750(type"HL"), CSA C22.2 No. 250.13-12; IEC/EN/AS/NZS 61347-1, IEC/EN/AS/NZS 61347-2-13 independent, EN6238							
SAFETY STANDARDS							
DALLSTANDADDS							
	21 2						
ISOLATION RESISTANCE							
EMC EMISSION	Compliance to EN55015,EN61000-3-2 Class C (@load≥60%); EN61000-3-3;GB17743, GB17625.1;EAC TP TC 020; KC KN15,KN61547						
EMC IMMUNITY	Compliance to EN61000-4-2,3	,4,5,6,8,11; EN61547, light in	dustry level (surge immunity	Line-Earth 6KV, Line-Line 4KV)	EAC TP TC 020; KC KN15, KN61		
MTBF	978.2K hrs min. Telcordia	a SR-332 (Bellcore)	282.9Khrs min. MIL-	-HDBK-217F (25°C)			
DIMENSION	199*63*35.5mm (L*W*H)						
PACKING	0.85kg; 16pcs/14.2kg/	0.72CUFT					
1. All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. 2. Please refer to "DRIVING METHODS OF LED MODULE". For DA-Type, Constant Current region is 60%~100% of maximum voltage under rated power delivery. 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. 8. This series meets the typical life expectancy of >50,000 hours of operation when Tcase, particularly (c) 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(65 11. 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							
	RIPPLE & NOISE (max.) Note.3 VOLTAGE ADJ. RANGE CURRENT ADJ. RANGE VOLTAGE TOLERANCE Note.4 LINE REGULATION LOAD REGULATION SETUP, RISE TIME Note.6 HOLD UP TIME (Typ.) VOLTAGE RANGE Note.5 FREQUENCY RANGE POWER FACTOR TOTAL HARMONIC DISTORTION EFFICIENCY (Typ.) AC CURRENT INRUSH CURRENT(Typ.) MAX. No. of PSUs on 16A CIRCUIT BREAKER LEAKAGE CURRENT NO LOAD / STANDBY POWER CONSUMPTION OVER CURRENT SHORT CIRCUIT OVER VOLTAGE OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS DALI STANDARDS DALI STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY MTBF DIMENSION PACKING 1. All parameters NOT specially 2. Please refer to "DRIVING M under rated power delivery. 3. Ripple and pose are measured 4. Tolerance: includes set up to 5. De-rating may be needed ur 6. Lengthing may be needed ur 6. Then driver is considered as a complete installation, the final complete installation in the final complete installation in the final c	RIPPLE & NOISE (max.) Note.3 VOLTAGE ADJ. RANGE CURRENT ADJ. RANGE CURRENT ADJ. RANGE VOLTAGE TOLERANCE Note.4 VOLTAGE TOLERANCE Note.4 LINE REGULATION LOAD REGULATION SETUP, RISE TIME Note.6 HOLD UP TIME (Typ.) VOLTAGE RANGE POWER FACTOR TOTAL HARMONIC DISTORTION EFFICIENCY (Typ.) AC CURRENT INAUSH CURRENT INAUSH CURRENT INAUSH CURRENT NO LOAD / STANDBY POWER CONSUMPTION OVER CURRENT NO LOAD / STANDBY POWER CONSUMPTION OVER CURRENT SHORT CIRCUIT Hiccup mode, recovers a WORKING TEMP. WORKING TEMP. MAX. A. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY ACA THOUS ON A SENGING. INAUSH CURRESTANCE OVER CORFICIENT UND ROAD / STANDARDS OVER VOLTAGE OVER TEMPERATURE WORKING HUMIDITY AO - 80°C, 10 - 95% RH non-conder STORAGE TEMP., HUMIDITY AO - 80°C, 10 - 95% RP non-conder STORAGE TEMP., HUMIDITY AO - 80°C, 10 - 95% RP non-conder STORAGE TEMP., HUMIDITY AO - 80°C, 10 - 95% RP non-conder STORAGE TEMP., HUMIDITY AO - 80°C, 10 - 95% RP non-conder STORAGE TEMP., HUMIDITY AO - 80°C, 10 - 95% RP non-conder STORAGE TEMP., HUMIDITY AO - 80°C, 10 - 95% RP non-conder STORAGE TEMP., HUMIDITY AO - 80°C, 10 - 95% RP non-conder STORAGE TEMP., HUMIDITY AO - 80°C, 10 - 95% RP non-conder STORAGE TEMP., HUMIDITY AO - 80°C, 10 - 95% RP non-conder STORAGE TEMP., HUMIDITY AO - 80°C, 10 - 95% RP non-conder STORAGE TEMP., HUMIDITY AO - 80°C, 10 - 95% RP non-conder STORAGE TEMP., HUMIDITY AO - 80°C, 10 - 95% RP non-conder STORAGE TEMP., HUMIDITY AO - 80°C, 10 - 95% RP non-conder STORAGE TEMP., HUMIDITY AO - 80°C, 10 - 95% RP non-conder STORAGE TEMP., HUMIDITY AO - 80°C, 10 - 95% RP non-conder COMPLEX TEMP. AC TYPC 004 RIS IS15 KG61347-1, KG61347-2-1 COLD START BOD STORED TO STORED TO STORED TO STORED TO STO	RATED POWER				

X 3Y Model (3-wire input)



• (tc): Max. Case Temperature

- O Note1: Please connect the case to PE for the complete EMC deliverance and safety use.
- $\ \, \bigcirc$ Note2: Please contact MEAN WELL for input wiring option with PE.

■ INSTALLATION MANUAL

Please refer to: http://www.meanwell.com/manual.html