





Features

- Constant Current mode output
- · Metal housing design with functional Ground
- Built-in active PFC function
- 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

Description

ELG-75-C series is a 75W LED AC/DC driver featuring the constant current mode and high voltage output. ELG-75-C operates from 100~305VAC and offers models with different rated current ranging between 350mA and 1400mA. Thanks to the high efficiency up to 91%, with the fanless design, the entire series is able to operate for $-40^{\circ}C - +85^{\circ}C$ 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-75-C is equipped with various function options, such as dimming methodologies, so as to provide the optimal design flexibility for LED lighting system.

Model Encoding

ELG - 75 - C500 A -		
	$-$ Input wiring type $\left\{ \begin{array}{l} Blank:2-wire input for standard model \\ \end{array} \right.$	I
Fu	ction options 3Y:3-wire input for standard model	
Ra	ed output current (350/500/700/1050/1400mA)	
Ou	out wattage	
Se	es name	

Туре	IP Level	Function	Note
Blank	IP67	lo fixed.	In Stock
A	IP65	lo 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 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

Applications

IS 15885(Part 2/Sec13 8 R-41027766

- LED street lighting
- LED harbor lighting
- LED bay lighting
- LED greenhouse lighting
- LED flood lighting
- Type "HL" for use in Class I, Division 2 hazardous (Classified) location.

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SPECIFICATION

MODEL		ELG-75-C350 🗌	ELG-75-C500	ELG-75-C700	ELG-75-C1050	ELG-75-C1400			
	RATED CURRENT	350mA	500mA	700mA	1050mA	1400mA			
		200VAC ~ 305VAC							
	DATED DOWED	74.9W	75W	74.9W	74.55W	75.6W			
	RATED POWER Note.5	100VAC ~ 180VAC		1	1	I			
		59.85W	60W	59.5W	59.85W	60.2W			
	CONSTANT CURRENT REGION Note.2	107 ~ 214\/	75 ~ 150V	53 ~ 107V	35 ~ 71V	27 ~ 54V			
OUTPUT	OPEN CIRCUIT VOLTAGE(max.)		158V	114V	78V	61V			
		Adjustable for A/AB-T	1	1	100	010			
	CURRENT ADJ. RANGE	,		,	505 4050 4	700 4400 4			
		175 ~ 350mA	250 ~ 500mA	350 ~ 700mA	525 ~ 1050mA	700 ~ 1400mA			
	CURRENT RIPPLE		0.0% max. @rated current						
-	CURRENT TOLERANCE	±5.0%							
	SET UP TIME Note.4	500ms/115VAC,230VAC							
	VOLTAGE RANGE Note.3		42 ~ 431VDC						
		(Please refer to "STATIC CHARACTERISTIC" section)							
	FREQUENCY RANGE	47 ~ 63Hz							
				0.92/277VAC@full loa					
	POWER FACTOR (Typ.)	(Please refer to "POW	ER FACTOR (PF) CHA	ARACTERISTIC" sectio	n)				
Ī		THD< 20%(@load≧5	0%/115VC,230VAC;	@load≧75%/277VAC)					
INPUT	TOTAL HARMONIC DISTORTION			ORTION(THD)" section					
	EFFICIENCY (Typ.)	91%	91%	90%	90%	90%			
t	AC CURRENT (Typ.)	0.7A / 115VAC 0.4	5A/230VAC 0.38A	/277VAC					
t	INRUSH CURRENT(Typ.)	COLD START 50A(tw	idth=350us measured	at 50% lpeak)/230VA(C; Per NEMA 410				
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	COLD START 50A(twidth=350µs measured at 50% Ipeak)/230VAC; Per NEMA 410 5 units (circuit breaker of type B) / 8 units (circuit breaker of type C) at 230VAC							
-	LEAKAGE CURRENT	<0.75mA / 277VAC							
	NO LOAD / STANDBY	No load power consur	•	• •					
	POWER CONSUMPTION		Standby power consumption <0.5W for B / AB / DA -Type						
	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed							
		225 ~ 260V	160~190V	115 ~ 140V	80~100V	64 ~ 79V			
PROTECTION	OVER VOLTAGE	Shut down o/p voltage, re-power on to recover							
	OVER TEMPERATURE	Shut down o/p voltage, re-power on to recover							
	WORKING TEMP.	Tcase=-40 ~ +85°C (Please refer to " OUTPUT LOAD vs TEMPERATURE" section)							
Ť	MAX. CASE TEMP.	Tcase=+85°C							
	WORKING HUMIDITY	20 ~ 95% RH non-con	Idensing						
+	STORAGE TEMP., HUMIDITY	-40~+80°C,10~95%	-						
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 60°C)							
-	VIBRATION	, ,		2min oach along V. V	7 0 1 0 0				
				2min. each along X, Y,					
	SAFETY STANDARDS	UL8750(type"HL"), CSA C22.2 No. 250.13-12;EN/AS/NZS 61347-1, EN/AS/NZS 61347-2-13 independent, EN62384; EAC TP TC 004;BIS IS15885(for 700A/1050A only);IP65 or IP67; GB19510.1, GB19510.14; KC61347-1,KC61347-2-13 approved							
İ	DALI STANDARDS	Compliance to IEC62386-101, 102, 207 for DA-Type only							
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC							
EMC	ISOLATION RESISTANCE								
		I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH Compliance to EN55015,EN61000-3-2 Class C (@load ≥50%) ; EN61000-3-3; GB17743, GB17625.1;							
	EMC EMISSION	EAC TP TC 020; KC							
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; EN61547, light industry level(surge immunity:Line-Earth:6KV,Line-Line:4KV); EAC TP TC 020; KC KN15, KN61547							
	MTBF	1171.4K hrs min. Telco	ordia SR-332 (Bellcore	e) 305Khrs min.	MIL-HDBK-217F (25°C	C)			
OTHERS	DIMENSION	180*63*35.5 mm (L*W	/*H)						
	PACKING	0.8Kg;16pcs/13.4Kg/0.6	7CUFT						
NOTE	 Please refer to "DRIVING M De-rating may be needed u Length of set up time is me The driver is considered as complete installation, the fir This series meets the typica Please refer to the warranty The ambient temperature de For any application note an 	 All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. Please refer to "DRIVING METHODS OF LED MODULE". De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. 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. 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. This series meets the typical life expectancy of >50,000 hours of operation when Tcase, particularly (tc) point (or TMP, per DLC), is about 80°C or less. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com 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(6500f For any application note and IP water proof function installation caution, please refer our user manual before using. 							
		,				ame:ELG-75-C-SPEC 2018			





■ DRIVING METHODS OF LED MODULE

 $\,$ $\! \times \,$ This series works in constant current mode to directly drive the LEDs.



Typical output current normalized by rated current (%)

In the constant current region, the highest voltage at the output of the driver depends on the configuration of the end systems.

Should there be any compatibility issues, please contact MEAN WELL.







※ DALI Interface (primary side; for DA-Type)

- Apply DALI signal between DA+ and DA-.
- · DALI protocol comprises 16 groups and 64 addresses.
- First step is fixed at 8% of output.

% Smart timer dimming function (for Dxx-Type by User definition)

MEAN WELL Smart timer dimming primarily provides the adaptive proportion dimming profile for the output constant current level to perform up to 14 consecutive hours. 3 dimming profiles hereunder are defined accounting for the most frequently seen applications. If other options may be needed, please contact MEAN WELL for details.

Ex : O D01-Type: the profile recommended for residential lighting



Set up for D01-Type in Smart timer dimming software program:

	T1	T2	Т3	Τ4
TIME**	06:00	07:00	11:00	
LEVEL**	100%	70%	50%	70%

Operating Time(HH:MM)

**: TIME matches Operating Time in the diagram whereas LEVEL matches Dimming Level.

Example: If a residential lighting application adopts D01-Type, when turning on the power supply at 6:00pm, for instance:

[1] The power supply will switch to the constant current level at 100% starting from 6:00pm.

[2] The power supply will switch to the constant current level at 70% in turn, starting from 0:00am, which is 06:00 after the power supply turns on.

[3] The power supply will switch to the constant current level at 50% in turn, starting from 1:00am, which is 07:00 after the power supply turns on.

[4] The power supply will switch to the constant current level at 70% in turn, starting from 5:00am, which is 11:00 after the power supply turns on. The constant current level remains till 8:00am, which is 14:00 after the power supply turns on.

Ex: O D02-Type: the profile recommended for street lighting



Set up for D02-Type in Smart timer dimming software program:

	T1	T2	Т3	T4	Τ5
TIME**	01:00	03:00	8:00	11:00	
LEVEL**	50%	80%	100%	60%	80%



- **: TIME matches Operating Time in the diagram whereas LEVEL matches Dimming Level.
- Example: If a street lighting application adopts D02-Type, when turning on the power supply at 5:00pm, for instance:

[1] The power supply will switch to the constant current level at 50% starting from 5:00pm.

- [2] The power supply will switch to the constant current level at 80% in turn, starting from 6:00pm, which is 01:00 after the power supply turns on.
- [3] The power supply will switch to the constant current level at 100% in turn, starting from 8:00pm, which is 03:00 after the power supply turns on.
- [4] The power supply will switch to the constant current level at 60% in turn, starting from 1:00am, which is 08:00 after the power supply turns on.
 [5] The power supply will switch to the constant current level at 80% in turn, starting from 4:00am, which is 11:00 after the power supply turns on. The constant current level remains till 6:30am, which is 14:00 after the power supply turns on.





Set up for D03-Type in Smart timer dimming software program:

	T1	T2	Т3	
TIME**	01:30	11:00		
LEVEL**	70%	100%	70%	

**: TIME matches Operating Time in the diagram whereas LEVEL matches Dimming Level.

Example: If a tunnel lighting application adopts D03-Type, when turning on the power supply at 4:30pm, for instance:

[1] The power supply will switch to the constant current level at 70% starting from 4:30pm.

[2] The power supply will switch to the constant current level at 100% in turn, starting from 6:00pm, which is 01:30 after the power supply turns on.

[3] The power supply will switch to the constant current level at 70% in turn, starting from 5:00am, which is 11:00 after the power supply turns on. The constant current level remains till 6:30am, which is 14:00 after the power supply turns on.







60~75W Constant Current Mode LED Driver

ELG-75-C series

LIFE TIME









60~75W Constant Current Mode LED Driver









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