





■ Features

- Constant Current mode output
- · Metal housing design
- Built-in active PFC function
- No load 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)
- · Typical lifetime>50000 hours
- 5 years warranty

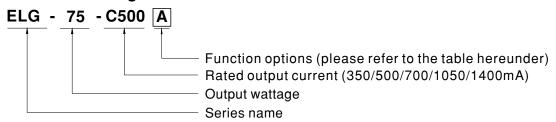
Applications

- 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.

Description

ELG-75-C series is a 75W LED AC/DC power supply featuring the constant current mode and high voltage output. ELG-75-C operates from $180\sim305$ VAC 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 $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$ 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-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



Type	IP Level	Function	Note
Blank	IP67	lo fixed.	In Stock
Α	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



75W Constant Current Mode LED Driver

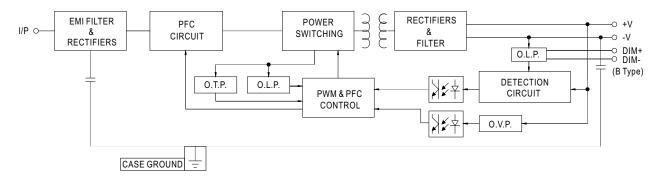
SPECIFICATION

MODEL		ELG-75-C350	ELG-75-C500	ELG-75-C700	ELG-75-C1050	ELG-75-C1400		
	RATED CURRENT	350mA	500mA	700mA	1050mA	1400mA		
ОИТРИТ	RATED POWER	74.9W	75W	74.9W	74.55W	75.6W		
	CONSTANT CURRENT REGION Note.2	107 ~ 214V	75 ~ 150V	53 ~ 107V	35 ~ 71V	27 ~ 54V		
	OPEN CIRCUIT VOLTAGE(max.)	224V	158V	114V	78V	61V		
		Adjustable for A-Type ONLY (via built-in potentiometer)						
	CURRENT ADJ. RANGE	175 ~ 350mA	250 ~ 500mA	350 ~ 700mA	525 ~ 1050mA	700 ~ 1400mA		
	CURRENT RIPPLE	5.0% max. @rated cu	rrent	-				
	CURRENT TOLERANCE	±5.0%						
	SET UP TIME Note.4	500ms/230VAC						
INPUT	VOLTAGE RANGE Note.3	180 ~ 305VAC 254 ~ 431VDC (Please refer to "STATIC CHARACTERISTIC" section)						
	FREQUENCY RANGE	47 ~ 63Hz						
	POWER FACTOR (Typ.)	PF≥0.95/230VAC or PF≥0.92/277VAC@full load (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)						
	TOTAL HARMONIC DISTORTION	THD< 20%@≧50%load/230VAC or @≧75%load/277VAC (Please refer to "TOTAL HARMONIC DISTORTION" section)						
	EFFICIENCY (Typ.)	91%	91%	90%	90%	90%		
	AC CURRENT (Typ.)	0.45A / 230VAC 0.	38A/277VAC					
	INRUSH CURRENT(Typ.)	COLD START 50A(tw	ridth=350μs measured	at 50% Ipeak)/230VAC	; Per NEMA 410			
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	5 units (circuit breaker of type B) / 8 units (circuit breaker of type C) at 230VAC						
	LEAKAGE CURRENT	<0.75mA/277VAC						
	NO LOAD POWER CONSUMPTION	N <0.5W						
PROTECTION	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed						
	OVER VOLTAGE	225 ~ 260V Shut down o/p voltag	160 ~ 190V je, re-power on to rec	115 ~ 140V over	80 ~ 100V	64 ~ 79V		
	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)						
	MAX. CASE TEMP.	Tcase=+85°C						
	WORKING HUMIDITY	20 ~ 95% RH non-condensing						
	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH						
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)						
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes						
SAFETY & EMC	SAFETY STANDARDS	UL8750(type"HL"), ENEC EN61347-1, EN61347-2-13 independent, EN62384, IP65 or IP67 approved						
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2.0KVAC O/P-FG:1.5KVAC						
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH						
	EMC EMISSION	Compliance to EN55015,EN61000-3-2 Class C (@≥50% load) ; EN61000-3-3						
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; EN61547, light industry level (surge 6KV)						
OTHERS	MTBF	305Khrs min. MIL-HDBK-217F (25°C)						
	DIMENSION	180*63*35.5 mm (L*W*H)						
	PACKING	0.7Kg;16pcs/12.2Kg/	0.67CUFT					
NOTE	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". 3. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTICS" sections for details. 4. Length of set up time is measured at first cold start. Turning ON/OFF the power supply may lead to increase of the set up time. 5. The power supply 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. 6. The model certified for CCC(GB19510.14, GB19510.1, GB17743 and GB17625.1) is an optional model . Please contact MEAN WELL for details. 7. This series meets the typical life expectancy of >50,000 hours of operation when Tcase, particularly (c) point (or TMP, per DLC), is about 70°C or less. 8. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com							



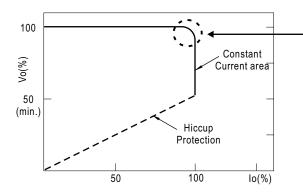
■ BLOCK DIAGRAM

PFC fosc: 50~120KHz PWM fosc: 60~130KHz



■ DRIVING METHODS OF LED MODULE

 $\ensuremath{\mathbb{X}}$ 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.

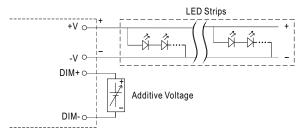


■ DIMMING OPERATION

X 3 in 1 dimming function (for B-Type)

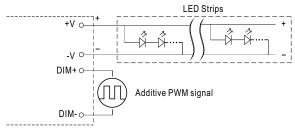


- Output constant current level can be adjusted by applying one of the three methodologies between DIM+ and DIM-:
 0 ~ 10VDC, or 10V PWM signal or resistance.
- Direct connecting to LEDs is suggested. It is not suitable to be used with additional drivers.
- Dimming source current from power supply: $100\mu A$ (typ.)
- O Applying additive 0 ~ 10VDC



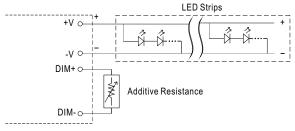
"DO NOT connect "DIM- to -V"

O Applying additive 10V PWM signal (frequency range 100Hz ~ 3KHz):

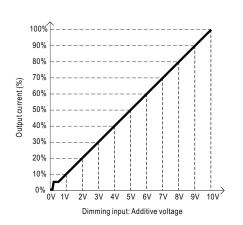


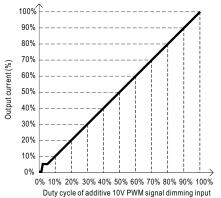
"DO NOT connect "DIM- to -V"

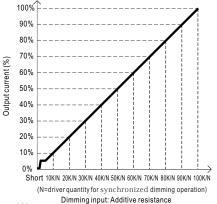
O Applying additive resistance:



"DO NOT connect "DIM- to -V"



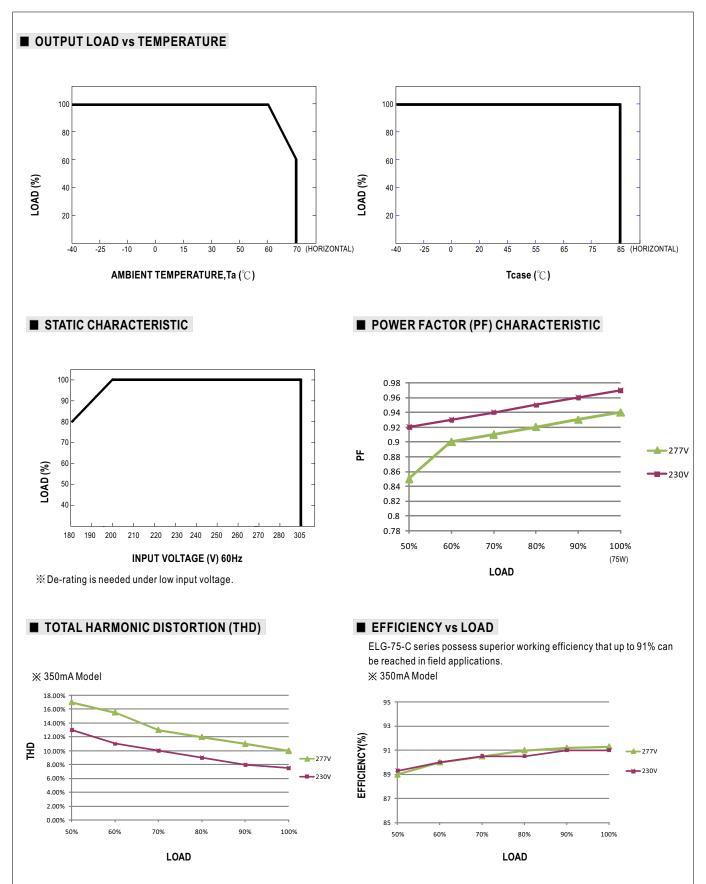




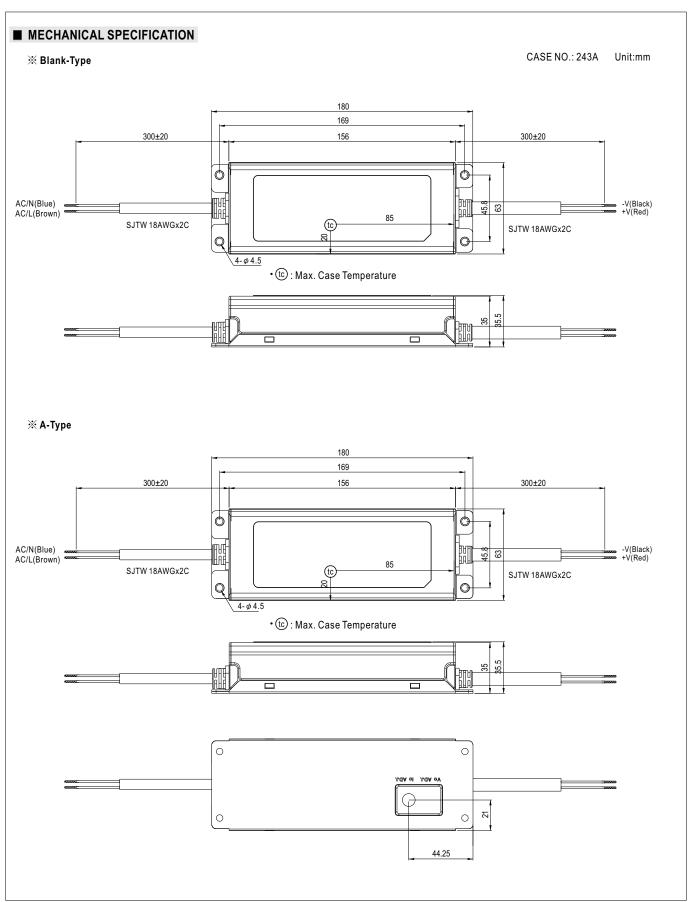
Note : 1. Min. dimming level is about 8% and the output current is not defined when 0% < Iout < 8%.

2. The output current could drop down to 0% when dimming input is about 0kΩ or 0Vdc, or 10V PWM signal with 0% duty cycle.



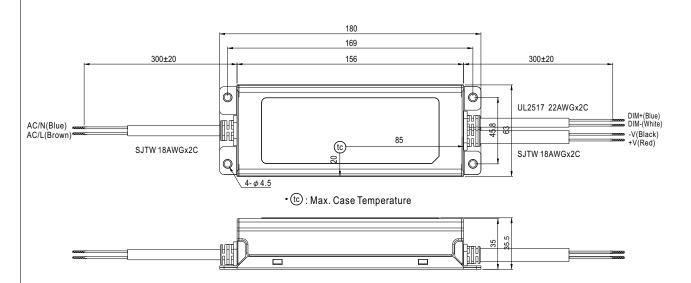








※ B-Type



O Note: Please connect the case to FG for the complete EMC deliverance.

■ Installation Manual

Please refer to : http://www.meanwell.com/webnet/search/InstallationSearch.html