





### 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</li>
- 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 series is a 75W AC/DC LED driver featuring the dual mode constant voltage and constant current output. ELG-75 operates from  $100 \sim 305$ VAC and offers models with different rated voltage ranging between 12V and 48V. Thanks to the high efficiency up to 90%, with the fanless design, the entire series is able to operate for  $-40^{\circ}$ C  $\sim +85^{\circ}$ 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 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 - 24	
	Input wiring type
	Function mode option 3Y:3-wire input for standard model
	——— Rated output voltage(12/24/36/42/48V)
	——— Rated wattage
	Series name

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

## 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: <a href="https://www.meanwell.com/serviceGTIN.aspx">https://www.meanwell.com/serviceGTIN.aspx</a>



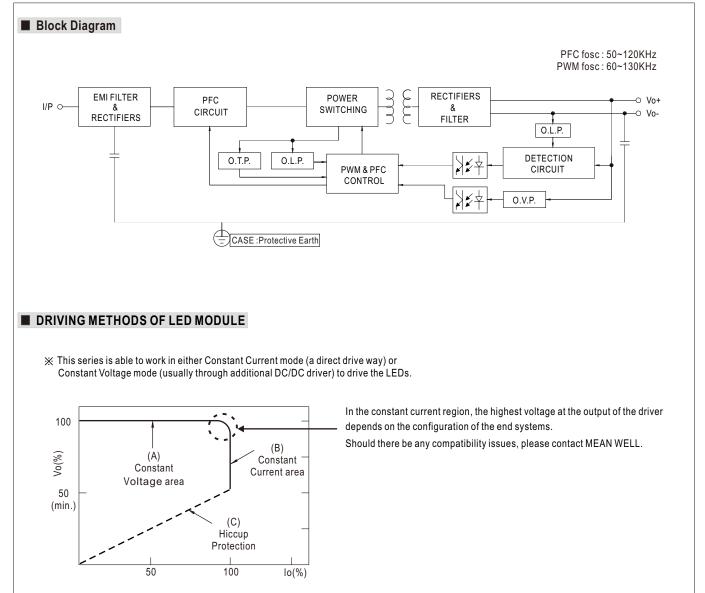
#### SPECIFICATION

DC VOLTAGE CONSTANT CURRENT REGION Note.2 RATED CURRENT		24V 12 ~ 24V	36V 18 ~ 36V	42V 21~42V	48V 24 ~ 48V	
		12 ~ 24V	18 ~ 36V	21~42\/	$24 \sim 48 V$	
					24 40 0	
	5A	3.15A	2.1A	1.8A	1.6A	
	200VAC ~ 305VAC					
		75.6W	75.6W	75.6W	76.8W	
RATED POWER Note.5		75.000	75.000	75.000	70.000	
		60W	60W	60W	60W	
RIPPLE & NOISE (max.) Note.3	150mVp-p	200mVp-p	250mVp-p	250mVp-p	250mVp-p	
	Adjustable for A/AB-T	Type only (via built-in pote	entiometer)		·	
VOLTAGE ADJ. RANGE	10.8 ~ 13.21/	21.6~26.4V	, 32 4 ~ 39 6V	37 8 ~ 16 2\/	43.2 ~ 52.8V	
				01.0 40.2 0	10.2 02.01	
CURRENT ADJ. RANGE			,			
					0.8 ~ 1.6A	
VOLTAGE TOLERANCE Note.4	±3.0%	±3.0%	±2.5%	±2.5%	±2.0%	
LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
LOAD REGULATION	±2.0%	±1.0%	±1.0%	±0.5%	±0.5%	
SETUP. RISE TIME Note.6	500ms, 100ms/115V/	AC. 230VAC				
	,	,				
		, ,				
VOLTAGE RANGE Note.5			agention)			
	,		section)			
FREQUENCY RANGE						
POWER FACTOR						
I OWERTAOTOR	(Please refer to "PC	OWER FACTOR (PF) C	HARACTERISTIC" secti	on)		
	THD< 20%(@load	d≧50%/115VC.230VA	C; @load≧75%/277VA	C)		
TOTAL HARMONIC DISTORTION						
EFEICIENCY (Typ.)			· · · ·	,	90%	
				5070	50 /0	
,	COLD START 50A(twidth=350µs measured at 50% Ipeak) at 230VAC; Per NEMA 410					
MAX. No. of PSUs on 16A						
CIRCUIT BREAKER						
LEAKAGE CURRENT	<0.75mA/277VAC					
	No load newar consumption <0.5W for Blank / A / Dx / D2 Type					
			TAB/DA-Type			
	95 ~ 108%					
OVER CORRENT	Constant current limit	ting, recovers automaticall	y after fault condition is remo	oved		
SHORT CIRCUIT	Hiccup mode, recove	ers automatically after fau	It condition is removed			
	14~18V	28~34V	41~48V	47 ~ 54V	54 ~ 62V	
OVER VOLTAGE	Shut down output vo	ltage re-power on to re	cover			
		0,1				
				" • • • • • • • • • •		
		Please refer to OUTPUT	LUAD VS TEMPERATURE	section)		
MAX. CASE TEMP.						
WORKING HUMIDITY	20 ~ 95% RH non-co	ndensing				
STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95	% RH				
TEMP. COEFFICIENT	±0.03%/°C (0~60°C	()				
VIBRATION		,	nin each along X Y 7 axes			
			-	347 1 IEC/BS EN/EN/AS	N75 61347 2 13 indopondo	
SAFETY STANDARDS	UL8/50(type"HL"), CSA C22.2 No. 250.13-12; IEC/BS EN/EN/AS/N2S 6134/-1, IEC/BS EN/EN/AS/N2S 6134/-2-13 independent, BS EN/EN62384;EAC TP TC 004;BIS IS15885(for 12A/12DA/12B/24A/24B/24DA/36A/36B/42A/42B/48A/48B only);					
	IP65 or IP67; GB19510.1, GB19510.14; KC61347-1,KC61347-2-13 approved					
	Compliance to IEC6	2386-101 102 (207 by r	equest) for DA Type only			
		, , , ,	1 , , , , , , ,			
SOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH					
EMC EMISSION			000-3-2 Class C (@load $\geq$	50%) ; BS EN/EN61000-3-	-3; GB/T 17743, GB17625.1	
EMC IMMUNITY				ndustry level (surge immur	nity Line-Earth 6KV,	
MTBF	3451.7K hrs min. Tel	cordia SR-332 (Bellcore)	331.3Khrs min. MI	HDBK-217F (25℃)		
DIMENSION	180*63*35.5mm (L*W*H)					
PACKING	0.8Kg;16pcs/13.4Kg/0.67CUFT					
<ol> <li>Please refer to "DRIVING ME</li> <li>Ripple &amp; noise are measured</li> <li>Tolerance : includes set up tol</li> <li>De-rating may be needed unc</li> <li>Length of set up time is meas</li> <li>The driver is considered as a complete installation, the final</li> </ol>	THODS OF LED MOI at 20MHz of bandwid lerance, line regulation der low input voltages. sured at first cold start. component that will be equipment manufactu	DULE". th by using a 12" twisted and load regulation. Please refer to "STATIC Turning ON/OFF the driv e operated in combination	pair-wire terminated with a CHARACTERISTIC" sectio ver may lead to increase of with final equipment. Since Directive on the complete	0.1uf & 47uf parallel capao ns for details. the set up time. e EMC performance will be	e affected by the	
	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 NRUSH CURRENT(Typ.) MAX. No. of PSUs on 16A CIRCUIT BREAKER EAKAGE CURRENT NO LOAD / STANDBY POWER CONSUMPTION DVER CURRENT SHORT CIRCUIT DVER VOLTAGE DVER TEMPERATURE NORKING TEMP. MAX. CASE TEMP. NORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT //IBRATION SAFETY STANDARDS DALI STANDARDS VITHSTAND VOLTAGE SOLATION RESISTANCE EMC EMISSION EMC IMMUNITY MTBF DIMENSION PACKING AC KING AC MINE AND SIGNED AC CURRENT SHORT CIRCUIT DIMENSION PACKING AC CONSIMPTION PACKING ALI STANDARDS NITHSTAND VOLTAGE SOLATION RESISTANCE EMC EMISSION AC KING ALI PARAMETERS NOT Specially ALI PARAMETERS NOT SPECIAL ALI PARAMETERS NOT SPECIAL ALI PARAMETERS NOT SPECIAL ALI PARAMETERS NOT SPECIAL ALI PA	100VAC ~ 180VAC         48W         RIPPLE & NOISE (max.) Note.3         150mVp-p         Adjustable for A/AB- 10.8 ~ 13.2V         CURRENT ADJ. RANGE         Adjustable for A/AB- 2.5 ~ 5A         VOLTAGE TOLERANCE Note.4         Adjustable for A/AB- 2.5 ~ 5A         VOLTAGE TOLERANCE Note.4         Adjustable for A/AB- 2.5 ~ 5A         VOLTAGE TOLERANCE Note.4         Adjustable for A/AB- 2.5 ~ 5A         VOLTAGE TOLERANCE Note.6         South and any adjustable for A/AB- 2.5 ~ 5A         VOLTAGE RANGE         Note.5         FREQUENCY RANGE         Note.5         FREQUENCY RANGE         Note.5         COWER FACTOR         PF ≥ 0.97/115VAC (Please refer to "PA         COUPER FACTOR         TEFICIENCY (Typ.)         Ad%         COLD START 50A(th WAX. No. of PSUs on 16A         COLD START 50A(th WAX. No. of PSUs on 16A         Colspan= 20         COLD START 50A(27)/VAC <t< td=""><td>RATED POWER         Note.5         100VAC ~ 180VAC           48W         60W           RIPPLE &amp; NOISE (max.) Note.3         150mVp-p         200mVp-p           VOLTAGE ADJ. RANGE         Adjustable for A/AB-Type only (via built-in pote 10.8 ~ 13.2V         21.6 ~ 26.4V           SURRENT ADJ. RANGE         Adjustable for A/AB-Type only (via built-in pote 10.8 ~ 13.2V         21.6 ~ 26.4V           VOLTAGE TOLERANCE Note.4         ±3.0%         ±3.0%           LOAD REGULATION         ±0.5%         ±0.5%           LOAD REGULATION         ±2.0%         ±1.0%           SETUP, RISE TIME Note.6         500ms, 100ms/115VAC, 230VAC           OLD UP TIME (Typ.)         10ms/ 230VAC 10ms/ 115VAC (at full load)           VOLTAGE RANGE         47 ~ 63Hz           PR = 0.97/115VAC, S20VAC         0.95/230VAC, PF ≥ 0.95/230VAC, PF (Please refer to "TOTAL HARMONIC DISTORTION           THD = 20%(@load ≥50%/115VC, 230VAC         0.38A/2           NOTAL HARMONIC DISTORTION         THD &gt; 20% (@load ≥50%/115VC, 230VAC           NUSH CURRENT (Typ.)         COLD START 50A(twidth=350µs measured at MAX. No. of PSUs on 16A           CIRCUIT BREAKER         5 units (circuit breaker of type B) / 8 units (cir Cu UTSTAMC           POWER CONSUMPTION         Standby power consumption &lt;0.5W for B</td>           SHORT CIRCUIT         Hiccup mode, recovers automatically aff</t<>	RATED POWER         Note.5         100VAC ~ 180VAC           48W         60W           RIPPLE & NOISE (max.) Note.3         150mVp-p         200mVp-p           VOLTAGE ADJ. RANGE         Adjustable for A/AB-Type only (via built-in pote 10.8 ~ 13.2V         21.6 ~ 26.4V           SURRENT ADJ. RANGE         Adjustable for A/AB-Type only (via built-in pote 10.8 ~ 13.2V         21.6 ~ 26.4V           VOLTAGE TOLERANCE Note.4         ±3.0%         ±3.0%           LOAD REGULATION         ±0.5%         ±0.5%           LOAD REGULATION         ±2.0%         ±1.0%           SETUP, RISE TIME Note.6         500ms, 100ms/115VAC, 230VAC           OLD UP TIME (Typ.)         10ms/ 230VAC 10ms/ 115VAC (at full load)           VOLTAGE RANGE         47 ~ 63Hz           PR = 0.97/115VAC, S20VAC         0.95/230VAC, PF ≥ 0.95/230VAC, PF (Please refer to "TOTAL HARMONIC DISTORTION           THD = 20%(@load ≥50%/115VC, 230VAC         0.38A/2           NOTAL HARMONIC DISTORTION         THD > 20% (@load ≥50%/115VC, 230VAC           NUSH CURRENT (Typ.)         COLD START 50A(twidth=350µs measured at MAX. No. of PSUs on 16A           CIRCUIT BREAKER         5 units (circuit breaker of type B) / 8 units (cir Cu UTSTAMC           POWER CONSUMPTION         Standby power consumption <0.5W for B	NoteS         100VAC - 180VAC           48W         60W         60W           48W         60W         60W           RIPPLE & NOISE (max.) NoteS         150mVp-p         250mVp-p           VOLTAGE ADJ. RANGE         Adjustable for A/AB-Type only (via bull-in potentiometer)           10.8 - 13.2 V         21.6 - 26.4 V         32.4 - 39.6 V           Adjustable for A/AB-Type only (via bull-in potentiometer)         10.8 - 13.2 V         21.6 - 26.4 V         32.4 - 39.6 V           Adjustable for A/AB-Type only (via bull-in potentiometer)         10.8 - 13.2 V         21.6 - 26.4 V         32.4 - 39.6 V           Adjustable for A/AB-Type only (via bull-in potentiometer)         10.5 - 2.1 A         10.5 - 2.1 A         10.5 - 2.1 A           VOLTAGE TOLERANCE Note.4         30.%         43.0 %         40.5 %         40.5 %           LOAD REGULATION         42.0 %         11.0 %         ±1.0 %         ±1.0 %           OLD UP TIME (Typ.)         10ms/ 230VAC 10ms/ 115VAC, 230VAC         10.6 20%(210.4 22.6 %)/11.5 VC, 230VAC         10.6 20%(210.4 22.6 %)/11.5 VC, 230VAC         10.6 20%/11.5 VC, 230VAC	NATED POWER         Nets         100VAC - 180VAC         60W         60W         60W         60W           REPLE & NOISE (max.)         Nets.3         150mVp-p         250mVp-p         250mVp-p         250mVp-p           VOLTAGE ADJ. RANGE         Adjustable for A/AB-Type only (via built-in potentionmeter)         37.8 - 45.2 V         37.8 - 45.2 V           URRENT ADJ. RANGE         Adjustable for A/AB-Type only (via built-in potentionmeter)         2.4 - 33.6 V         37.8 - 45.2 V           URRENT ADJ. RANGE         43.0%         43.0%         42.6 %         42.5 %           VOLTAGE TOLERANCE texts         43.0%         43.0 %         42.0 %         41.0 %           VADI AGE TOLERANCE texts         500ms.100ms/115VAC. 230VAC         100-5 %         40.5 %           VADI DU PTIME (Typ.)         100ms/230VAC 10mr/115VAC.230VAC, PF ≥ 0.92/277VAC@full load         PF ≥ 0.97/115VAC. PF ≥ 0.95/230VAC. 0.7 PF ≥ 0.92/277VAC@full load           VERE FACTOR         PF ≥ 0.97/115VAC, PF ≥ 0.95/230VAC, PF ≥ 0.92/277VAC@full load         PF ≥ 0.97/115VAC         0.436.230VAC         0.368/27VAC           VGUTAGE TANGE         47 - 63H2         77.45.230VAC         0.0002/27.77VAC@full load         PF ≥ 0.97/115VAC         0.90%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%	

12. For A/AB type need to consider build in using to comply with Type HL application. ※ Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx

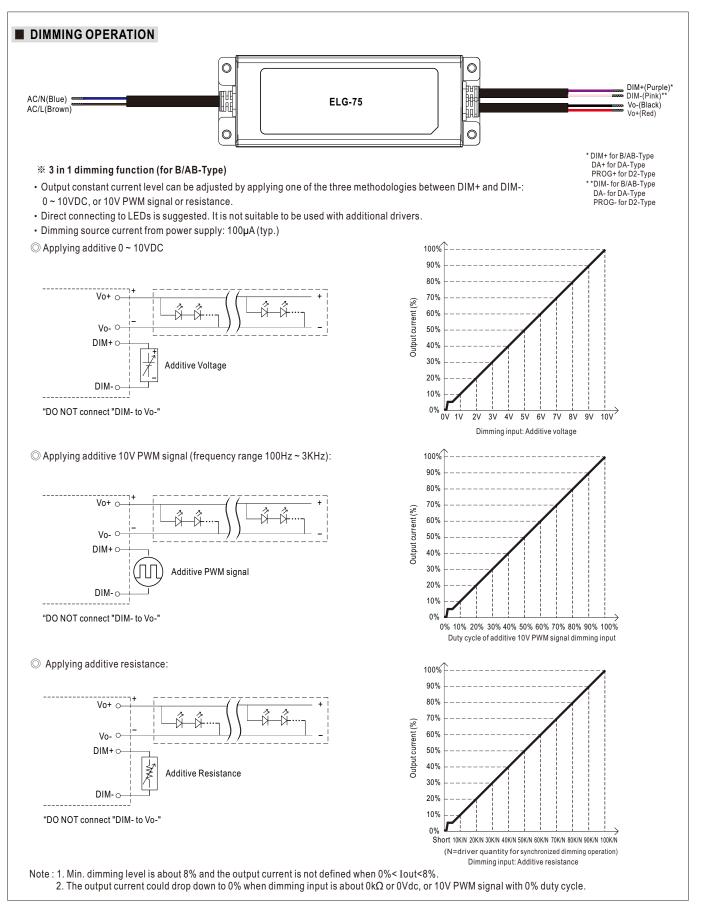


# ELG-75 series



Typical output current normalized by rated current (%)







## ELG-75 series

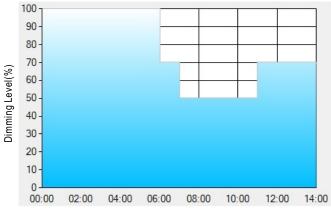
#### ※ DALI Interface (primary side; for DA-Type)

- 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.

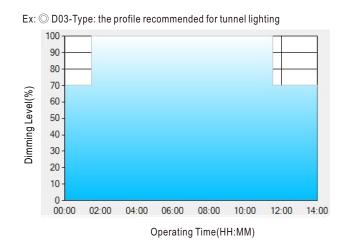
[3] The power supply will switch to the constant current level at 100% in turn, starting from 8:00pm, which is 03:00 after the power supply turns on.

[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.



## ELG-75 series



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.

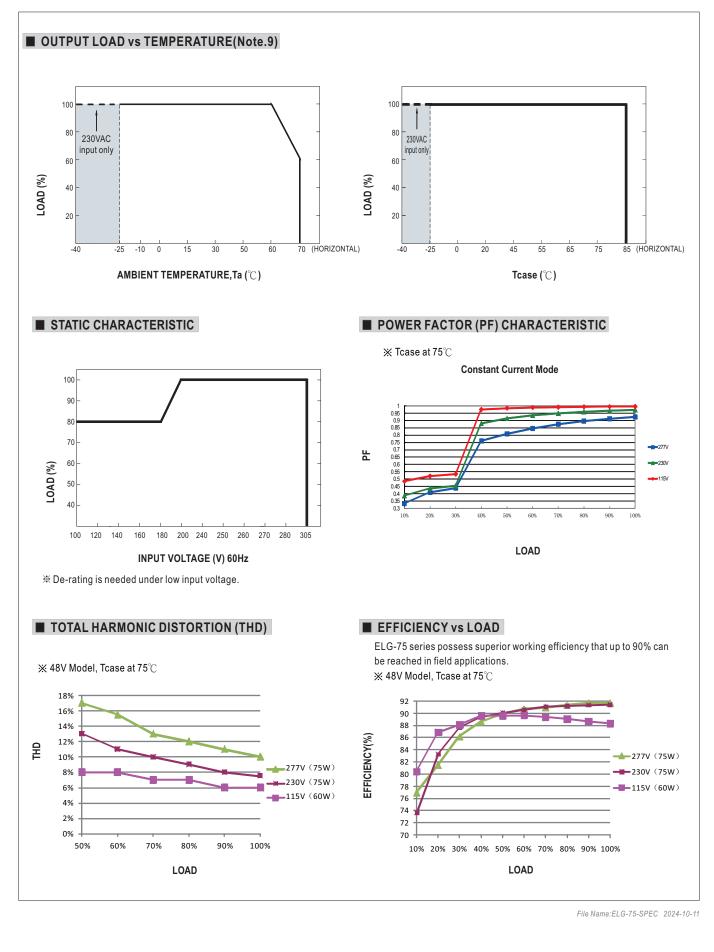
Example: If a tunnel lighting application adopts D03-Type, when turning on the power supply at 4:30pm, for instance:

[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.

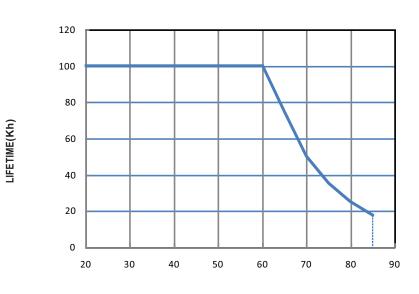






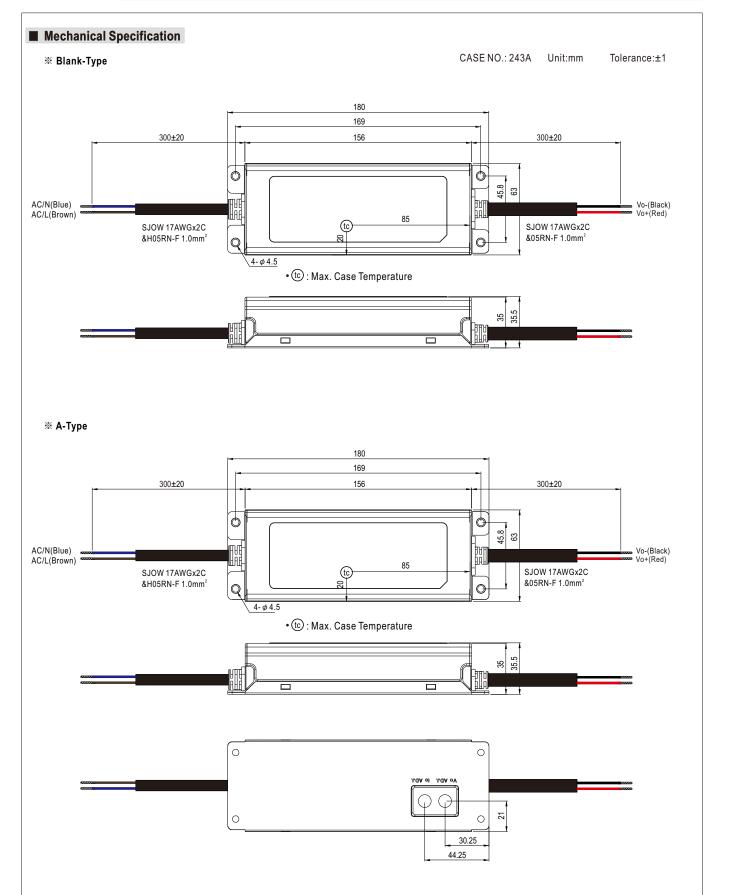
ELG-75 series

LIFE TIME



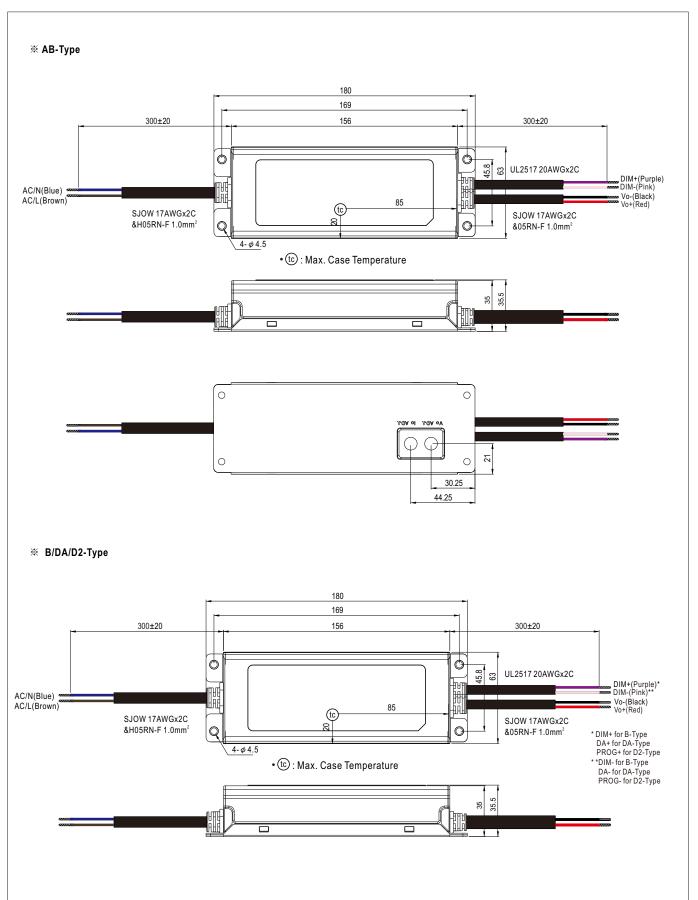
Tcase( ℃)





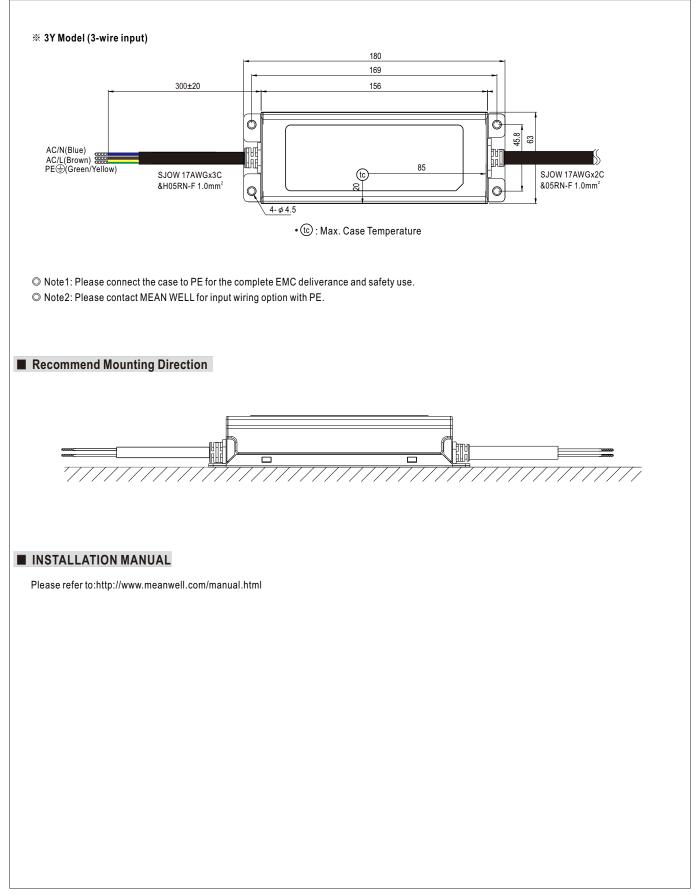


ELG-75 series



File Name:ELG-75-SPEC 2024-10-11





## **Mouser Electronics**

Authorized Distributor

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 ELG-75-12D2
 ELG-75-42B
 ELG-75-48
 ELG-75-36A
 ELG-75-42D2
 ELG-75-24D2
 ELG-75-36B
 ELG-75-36DA

 ELG-75-36D2
 ELG-75-24
 ELG-75-42A
 ELG-75-12A
 ELG-75-48DA
 ELG-75-24DA
 ELG-75-24B
 ELG-75-12DA

 ELG-75-42DA
 ELG-75-48A
 ELG-75-24A
 ELG-75-36B
 ELG-75-12DA
 ELG-75-24B
 ELG-75-12DA

 ELG-75-42DA
 ELG-75-48A
 ELG-75-24A
 ELG-75-36B
 ELG-75-48B
 ELG-75-48D2
 ELG-75-24B

 24B-3Y
 ELG-75-48A
 ELG-75-48A
 ELG-75-48A
 ELG-75-48A
 ELG-75-48B