









■ 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

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.

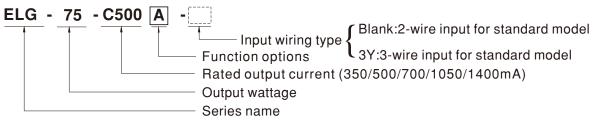
■ GTIN CODE

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

■ 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 $100\sim305$ 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 $-40\%\sim+85\%$ 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	Io 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

SPECIFICATION

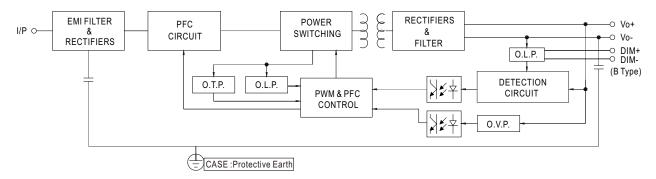
		ELG-75-C350	ELG-75-C500	ELG-75-C700	ELG-75-C1050	ELG-75-C1400		
	RATED CURRENT	350mA	500mA	700mA	1050mA	1400mA		
ОИТРИТ		200VAC ~ 305VAC						
	DATED DOWED	74.9W 75W 74.9W 74.55W 75.6W						
	RATED POWER Note.5	100VAC ~ 180VAC						
		59.85W	60W	59.5W	59.85W	60.2W		
	CONSTANT CURRENT REGION Note.2	107 ~ 214V	75 ~ 150V	53 ~ 107V	35 ~ 71V	27 ~ 54V		
	OPEN CIRCUIT VOLTAGE(max.)	224V	158V	114V	78V	61V		
		Adjustable for A/AB-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/115VAC,230VAC						
	VOLTAGE BANGE	100 ~ 305VAC 1	42 ~ 431VDC					
	VOLTAGE RANGE Note.3	(Please refer to "STA"	TIC CHARACTERISTIC	C" section)				
ľ	FREQUENCY RANGE	47 ~ 63Hz						
	DOWED 54.070D	PF≥0.97/115VAC. PI	F≥0.95/230VAC. PF≥	0.92/277VAC@full load				
	POWER FACTOR (Typ.)			RACTERISTIC" section)			
ļ	TOTAL HARMONIO DIGTORTION	THD< 20%(@load≧5	0%/115VC,230VAC; @	@load≧75%/277VAC)				
NPUT	TOTAL HARMONIC DISTORTION	(Please refer to "TOT	AL HARMONIC DIST	ORTION(THD)" section	1)			
	EFFICIENCY (Typ.)	91%	91%	91%	90%	90%		
ĺ	AC CURRENT (Typ.)	0.7A / 115VAC 0.4	5A / 230VAC 0.38A/	277VAC	•			
ļ	INRUSH CURRENT(Typ.)	COLD START 50A(tw	vidth=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						
ŀ	LEAKAGE CURRENT	<0.75mA / 277VAC						
ŀ	NO LOAD / STANDBY	No load power consumption <0.5W for Blank / A / Dx / D2-Type Standby power consumption <0.5W for B / AB / DA -Type						
	POWER CONSUMPTION							
	SHORT CIRCUIT	Hiccup mode, recover	rs automatically after fa	ult condition is remove	d			
ļ		225 ~ 260V	160 ~ 190V	115 ~ 140V	80 ~ 100V	64 ~ 79V		
ROTECTION	OVER VOLTAGE	Shut down o/p voltage	je, re-power on to reco	ver				
ļ	OVER TEMPERATURE	Shut down o/p voltage, re-power on to recover						
	WORKING TEMP.			JT LOAD vs TEMPERA	TURE" section)			
ŀ	MAX. CASE TEMP.	Tcase=+85°C			,			
ŀ	WORKING HUMIDITY	20 ~ 95% RH non-condensing						
	STORAGE TEMP., HUMIDITY	-40 ~ +80°C , 10 ~ 95% RH						
INVIRONMENT	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 60°C)						
1		10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes						
		10 ~ 500Hz 5G 12mi	n /1cycle_period for_72	min_each_along X_Y_7	axes			
	VIBRATION SAFETY STANDARDS	UL8750(type"HL"), CS independent, BS EN/B	SA C22.2 No. 250.13-12	2;BS EN/EN/AS/NZS 61 04;BIS IS15885(for 700	347-1, BS EN/EN/AS/N			
	VIBRATION SAFETY STANDARDS	UL8750(type"HL"), CS independent, BS EN/E GB19510.1, GB19510	SA C22.2 No. 250.13-12 EN62384;EAC TP TC 00).14;KC61347-1,KC613	2;BS EN/EN/AS/NZS 61 04;BIS IS15885(for 700 47-2-13 approved	347-1, BS EN/EN/AS/N)A/700B/700DA/10			
ΔΕΕΤΥ 9	VIBRATION	UL8750(type"HL"), CS independent, BS EN/E GB19510.1, GB19510	SA C22.2 No. 250.13-12 EN62384;EAC TP TC 00 0.14;KC61347-1,KC613 2386-101,102,(207 by	2;BS EN/EN/AS/NZS 61 04;BIS IS15885(for 700	347-1, BS EN/EN/AS/N)A/700B/700DA/10			
AILIIQ	VIBRATION SAFETY STANDARDS DALI STANDARDS WITHSTAND VOLTAGE	UL8750(type"HL"), CS independent, BS EN/6 GB19510.1, GB19510 Compliance to IEC62 I/P-O/P:3.75KVAC	SA C22.2 No. 250.13-12 EN62384;EAC TP TC 00 0.14;KC61347-1,KC613 2386-101,102,(207 by I/P-FG:2.0KVAC O	2;BS EN/EN/AS/NZS 61 04;BIS IS15885(for 700 47-2-13 approved request) for DA Type of /P-FG:1.5KVAC	347-1, BS EN/EN/AS/N)A/700B/700DA/10			
SAFETY &	VIBRATION SAFETY STANDARDS DALI STANDARDS	UL8750(type"HL"), CS independent, BS EN/I GB19510.1, GB19510 Compliance to IEC62 I/P-O/P:3.75KVAC I/P-O/P, I/P-FG, O/P Compliance to BS EN	SA C22.2 No. 250.13-12 EN62384;EAC TP TC 00 0.14;KC61347-1,KC613 2386-101,102,(207 by I/P-FG:2.0KVAC O -FG:100M Ohms / 500 /EN55015,BS EN/EN6	2;BS EN/EN/AS/NZS 61 04;BIS IS15885(for 700 447-2-13 approved request) for DA Type of /P-FG:1.5KVAC VDC / 25°C / 70% RH 1000-3-2 Class C (@log	347-1, BS EN/EN/AS/N 0A/700B/700DA/10 only	50A only);IP65 or IP6		
ALLIIA	VIBRATION SAFETY STANDARDS DALI STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE	UL8750(type"HL"), CS independent, BS EN/I GB19510.1, GB19510 Compliance to IEC62 I/P-O/P:3.75KVAC I/P-O/P, I/P-FG, O/P Compliance to BS EN GB17625.1;EAC TP T Compliance to BS EN	SA C22.2 No. 250.13-12 EN62384;EAC TP TC 00 0.14;KC61347-1,KC613 2386-101,102,(207 by I/P-FG:2.0KVAC O -FG:100M Ohms / 500 /EN55015,BS EN/EN6 C 020; KC KN15, KN6	2;BS EN/EN/AS/NZS 61 04;BIS IS15885(for 700 447-2-13 approved request) for DA Type of /P-FG:1.5KVAC VDC / 25°C / 70% RH 1000-3-2 Class C (@loa 1547 3,11; BS EN/EN61547, I	347-1, BS EN/EN/AS/N 0A/700B/700DA/10 only ad≥50%); BS EN/EN6	50A only);IP65 or IP6		
MC	VIBRATION SAFETY STANDARDS DALI STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	UL8750(type"HL"), CS independent, BS EN/I GB19510.1, GB19510 Compliance to IEC6: I/P-O/P:3.75KVAC I/P-O/P, I/P-FG, O/P Compliance to BS EN GB17625.1;EAC TP T Compliance to BS EN 6KV,Line-Line:4KV);	SA C22.2 No. 250.13-12 EN62384;EAC TP TC 00 0.14;KC61347-1,KC613 2386-101,102,(207 by I/P-FG:2.0KVAC O -FG:100M Ohms / 500 /EN55015,BS EN/EN6 C 020; KC KN15, KN6 /EN61000-4-2,3,4,5,6,6	2;BS EN/EN/AS/NZS 61 04;BIS IS15885(for 700 447-2-13 approved request) for DA Type of /P-FG:1.5KVAC VDC / 25°C / 70% RH 1000-3-2 Class C (@loa 1547 3,11; BS EN/EN61547, N15, KN61547	347-1, BS EN/EN/AS/N 0A/700B/700DA/10 only ad≥50%); BS EN/EN6	50A only);IP65 or IP6 1000-3-3; GB/T 1774: e immunity:Line-Earth		
MC	VIBRATION SAFETY STANDARDS DALI STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY	UL8750(type"HL"), CS independent, BS EN/I GB19510.1, GB19510 Compliance to IEC6: I/P-O/P:3.75KVAC I/P-O/P, I/P-FG, O/P Compliance to BS EN GB17625.1;EAC TP T Compliance to BS EN 6KV,Line-Line:4KV);	SA C22.2 No. 250.13-12 EN62384; EAC TP TC 00 .114; KC61347-1, KC613 2386-101,102, (207 by I/P-FG: 2.0 KVAC O -FG: 100 M Ohms / 500 /EN55015, BS EN/EN67 C 020; KC KN15, KN6 /EN61000-4-2,3,4,5,6, EAC TP TC 020; KC KN cordia SR-332 (Bellcore	2;BS EN/EN/AS/NZS 61 04;BIS IS15885(for 700 447-2-13 approved request) for DA Type of /P-FG:1.5KVAC VDC / 25°C / 70% RH 1000-3-2 Class C (@loa 1547 3,11; BS EN/EN61547, N15, KN61547	347-1, BS EN/EN/AS/N DA/700B/700DA/10 only ad ≥ 50%); BS EN/EN6 ight industry level(surg	50A only);IP65 or IP6 1000-3-3; GB/T 1774: e immunity:Line-Earth		

- 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. (as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf)
- 6. 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.
 7. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com
 8. 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).
- 9. 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
- 10.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 File Name:ELG-75-C-SPEC 2024-09-19



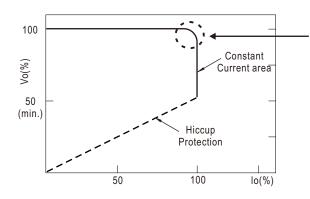
■ BLOCK DIAGRAM

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



■ DRIVING METHODS OF LED MODULE

 $\frak{\%}$ 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.

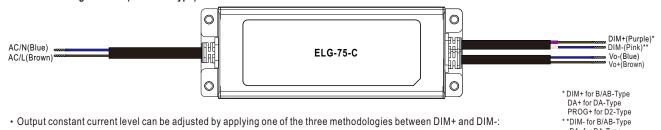
Should there be any compatibility issues, please contact MEAN WELL.

DA- for DA-Type PROG- for D2-Type

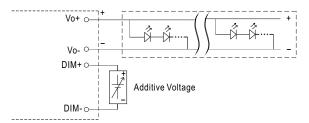




※ 3 in 1 dimming function (for B/AB-Type)

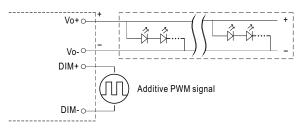


- · Output constant current level can be adjusted by applying one of the three methodologies between DIM+ and DIM-: 0 ~ 10VDC, or 10V PWM signal or resistance.
- Direct connecting to LEDs is suggested. It is not suitable to be used with additional drivers.
- Dimming source current from power supply: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



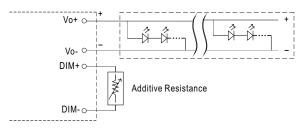
"DO NOT connect "DIM- to Vo-"

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

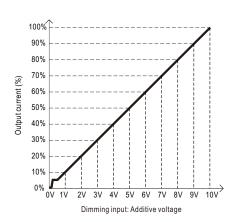


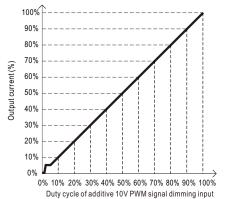
"DO NOT connect "DIM- to Vo-"

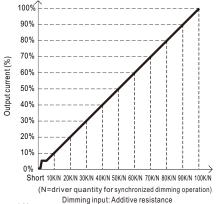
Applying additive resistance:



"DO NOT connect "DIM- to Vo-"







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.



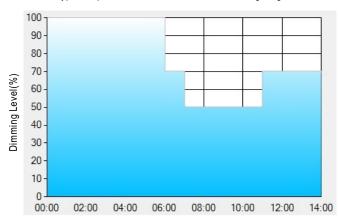
* DALI Interface (primary side; for DA-Type)

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

X 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	T4
TIME**	06:00	07:00	11:00	
LEVEL**	100%	70%	50%	70%

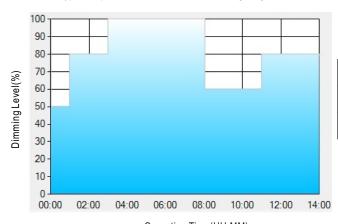
Operating Time(HH:MM)

- **: 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:

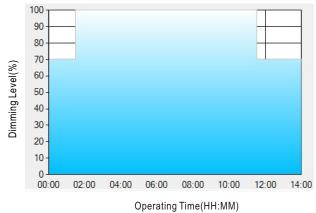
	T1	T2	Т3	T4	T5
TIME**	01:00	03:00	8:00	11:00	
LEVEL**	50%	80%	100%	60%	80%

Operating Time(HH:MM)

- **: 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.

Ex: O D03-Type: the profile recommended for tunnel lighting



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

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

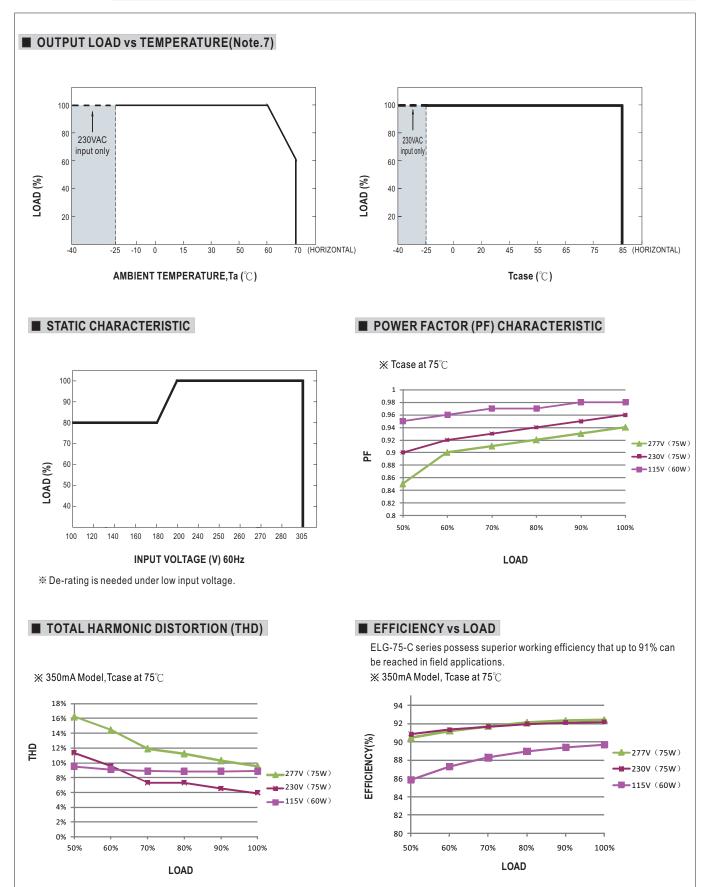
**: TIME matches Operating Time in the diagram whereas LEVEL matches Dimming Level.

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 5:00 am, which is 11:00 after the power supply turns on.

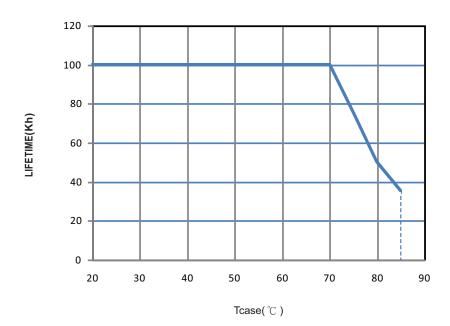
The constant current level remains till 6:30am, which is 14:00 after the power supply turns on.



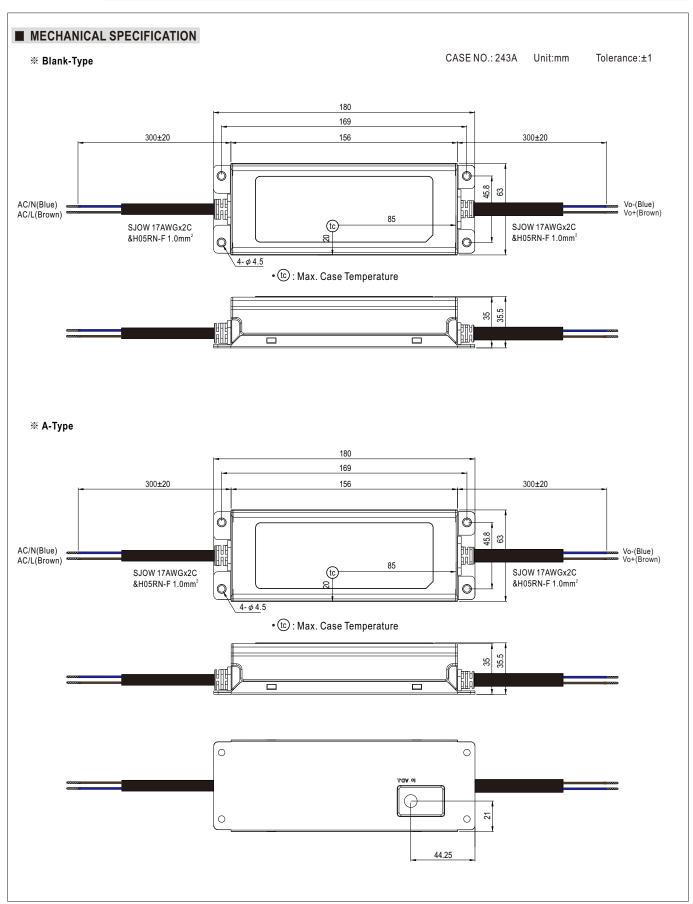




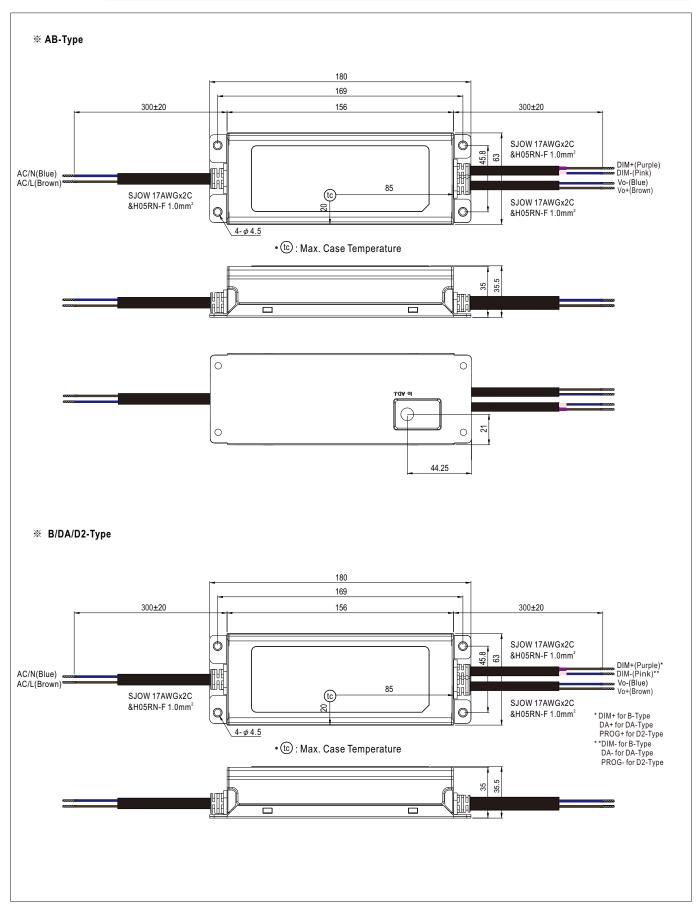
■ LIFE TIME





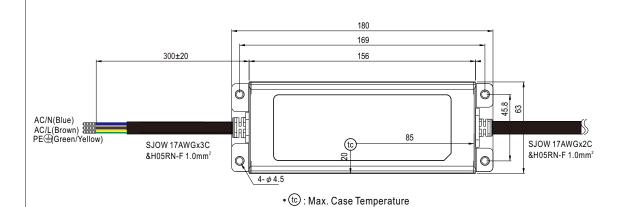








3 Y Model (3-wire input)



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

■ Recommend Mounting Direction



■ INSTALLATION MANUAL

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