





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

### 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  $-40^{\circ}C \sim +85^{\circ}C$  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-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
	-		T

<sup>r</sup> Blank:2-wire input for standard model

- Function options
- Rated output current (350/500/700/1050/1400mA)
- Output wattage
- Series 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

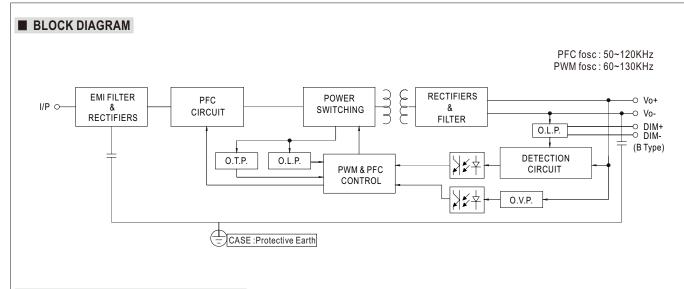


#### SPECIFICATION

	ELG-75-C350	ELG-75-C500	ELG-75-C700	ELG-75-C1050	ELG-75-C1400	
RATED CURRENT	350mA	500mA	700mA	1050mA	1400mA	
	200VAC ~ 305VAC				l	
	74.9W	75W	74.9W	74.55W	75.6W	
KAIED 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	
					61V	
					011	
CURRENT ADJ. RANGE	-	1		525 ~ 1050m∆	700 ~ 1400mA	
CURRENT RIPPLE			000 10011/1	020 100011/1	100 140011/1	
OLI OI TIML Note.4						
VOLTAGE RANGE Note.3			IC" section)			
FREQUENCY RANGE	47 ~ 63Hz					
POWER FACTOR (Typ.)						
TOTAL HARMONIC DISTORTION						
EFFICIENCY (TVD.)	91%	91%	91%	90%	90%	
	, -					
				C: 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						
NO LOAD / STANDBY POWER CONSUMPTION	No load power consumption <0.5W for Blank / A / Dx / D2-Type Standby power consumption <0.5W for B / AB / DA -Type					
SHORT CIRCUIT	Hiccup mode, recover	rs automatically after	fault condition is remov	ed		
OVER VOLTAGE	225 ~ 260V Shut down o/p voltad	160 ~ 190V e, re-power on to rec	115~140V cover	80~100V	64~79V	
OVER TEMPERATURE		· · ·				
				ATURE" section)		
	-	densing				
	· · ·					
	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes UL8750(type"HL"), CSA C22.2 No. 250.13-12;BS EN/EN/AS/NZS 61347-1, BS EN/EN/AS/NZS 61347-2-13					
	GB19510.1, GB19510	).14;KC61347-1,KC6	1347-2-13 approved			
	•	, ,,,	5 1 7 51	oniy		
	Compliance to BS EN/EN55015,BS EN/EN61000-3-2 Class C (@load ≥ 50%) ; BS EN/EN61000-3-3; C					
	GB17625.1;EAC TP TC 020; KC KN15, KN61547 Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11; BS EN/EN61547, light industry level(surge immunity:Line-Eart					
MTBF					25°C)	
					~ ~ /	
		,				
<ol> <li>Please refer to "DRIVING M</li> <li>De-rating may be needed ur</li> <li>Length of set up time is meas</li> <li>The driver is considered as a complete installation, the fina (as available on https://www.</li> <li>This series meets the typical</li> <li>Please refer to the warranty</li> <li>The ambient temperature de</li> <li>For any application note and https://www.meanwell.com/U</li> </ol>	y mentioned are measure ETHODS OF LED MOD nder low input voltages. F issured at first cold start. 1 a component that will be al equipment manufacture meanwell.com//Upload/F life expectancy of >50,0 statement on MEAN WE irating of 3.5°C/1000m w IP water proof function i lpload/PDF/LED_EN.pdf	ed at 230VAC input, rate ULE". Please refer to "STATIC 'uming ON/OFF the dri- operated in combination ers must re-qualify EMC 'DF/EMI_statement_en. 00 hours of operation w LL's website at http://w ith fanless models and o nstallation caution, plea	CHARACTERISTIC" secti ver may lead to increase of n with final equipment. Sin Directive on the complete pdf) then Tcase, particularly (to ww.meanwell.com of 5°C/1000m with fan mo se refer our user manual l D power supply can only	ions for details. of the set up time. ce EMC performance will e installation again. ) point (or TMP, per DLC), dels for operating altitude before using.	, is about 80 °C or less. higher than 2000m(6500f	
	RATED POWER       Note.5         CONSTANT CURRENT REGION Note.2         OPEN CIRCUIT VOLTAGE(max.)         CURRENT ADJ. RANGE         CURRENT RIPPLE         CURRENT TOLERANCE         SET UP TIME Note.4         VOLTAGE RANGE Note.3         FREQUENCY RANGE         POWER FACTOR (Typ.)         AC CURRENT (Typ.)         AC CURRENT (Typ.)         AC CURRENT (Typ.)         AC CURRENT (Typ.)         INRUSH CURRENT(Typ.)         INRUSH CURRENT(Typ.)         MAX. No. of PSUs on 16A         CIRCUIT BREAKER         LEAKAGE CURRENT         NO LOAD / STANDBY         POWER CONSUMPTION         SHORT CIRCUIT         OVER VOLTAGE         OVER VOLTAGE         OVER VOLTAGE         OVER TEMPERATURE         WORKING TEMP.         MAX. CASE TEMP.         WORKING HUMIDITY         STORAGE TEMP., HUMIDITY         TEMP. COEFFICIENT         VIBRATION         SAFETY STANDARDS         DALI STANDARDS         WITHSTAND VOLTAGE         ISOLATION RESISTANCE         EMC EMISSION         PACKING         1. All parameters NOT speciall	RATED CURRENT       350mA         RATED POWER       350mA         200VAC ~ 305VAC       74.9W         100VAC ~ 180VAC       59.85W         CONSTANT CURRENT REGION INDEX       107 ~ 214V         OPEN CIRCUIT VOLTAGE(max.)       224V         CURRENT ADJ. RANGE       Adjustable for A/AB-T         CURRENT RIPPLE       5.0% max. @rated cut         CURRENT TOLERANCE       ±5.0%         SET UP TIME       Note.3         100 ~ 305VAC       1.         (Please refer to "STAT         FREQUENCY RANGE       47 ~ 63Hz         POWER FACTOR (Typ.)       PF ≥ 0.97/115VAC, PF         (Please refer to "TOT         EFFICIENCY (Typ.)       91%         AC CURRENT (Typ.)       0.7A / 115VAC 0.4         INRUSH CURRENT (Typ.)       0.7A / 115VAC 0.4         INAX. No. of PSUs on 16A       5 units (circuit breake         LEAKAGE CURRENT       0.75mA / 277VAC         NO LOAD / STANDBY       No l	RATED CURRENT         350mA         500mA           RATED POWER         Note5         200VAC ~ 305VAC         75W           RATED POWER         Note5         200VAC ~ 305VAC         75W           100VAC ~ 180VAC         50.85W         60W           CONSTANT CURRENT REGIONMERAZ         107 ~ 214V         75 ~ 150V           OPEN CIRCUIT VOLTAGE(max)         224V         158V           CURRENT ADJ, RANGE         Adjustable for A/AB-Type only (via built-in p           CURRENT TOLERANCE         5.0% max.@rated current           CURRENT TOLERANCE         5.0% max.@rated current           CURRENT TOLERANCE         100 ~ 305VAC         142 ~ 431VDC           VOLTAGE RANGE         Note.3         100 ~ 305VAC         142 ~ 431VDC           POWER FACTOR (Typ.)         PF = 0.97/115VAC, PF = 0.95/230VAC, PF = (Please refer to "POWER FACTOR (PF) CH         TTAC + 63Hz           POWER FACTOR (Typ.)         THD < 20%(@load 2560%/115VC, 230VAC	RATED CURRENT         350mA         500mA         700mA           200VAC - 305VAC         -	RATED CURRENT         350mA         500mA         700mA         1050mA           RATED POWER         Xem         74,9W         74,9W         74,55W           RATED POWER         Xem         75,9W         77,9W         74,9W         74,55W           CONSTANT CURRENT REGIONER:         107 - 214V         75 - 150V         53 - 107V         95 - 71V           OPEN CIRCUIT VOLTAGE;min:         224V         158V         114V         78V           CURRENT TAD.J. RANGE         50% max. @rated current         220V         500ms/115VA.C.200VAC         50 - 700mA         525 - 1050mA           CURRENT TOLERANCE         5.0% max. @rated current         200 - 500mA         350 - 700mA         525 - 1050mA           CURRENT TOLERANCE         5.0% max. @rated current         100 - 305VAC         142 - 431VDC         100 - 305VAC           (Plesses refer to TSTATIC CHARACTERISTIC' section)         (Plesses refer to TSTATIC AHARCONCID STATIC' section)         110 - 20% @load255%/1715VC.200VAC         90% AC CURRENT TOWNON         100 - 305VAC         142 - 431VDC         101 - 305VAC         141 - 400VAC         141 - 400VAC           FFEQ.037/115VAC.05%         91% ALARAMONIC DISTOTION(THI0)'s section)         (Plesses refer to TSTATIC HARCOTERISTIC'section)         110 - 400VER         110 - 400VER         110 - 400VER         110 - 400VER	

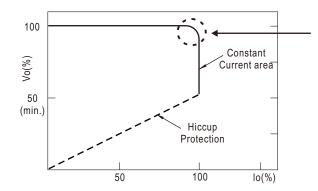


## ELG-75-C series



### DRIVING METHODS OF LED MODULE

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

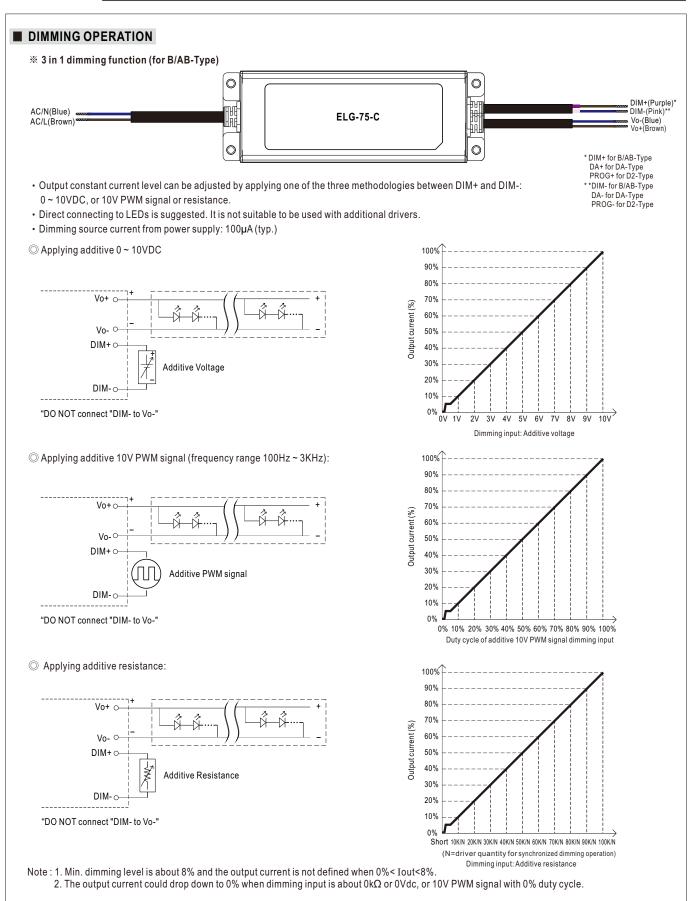


Typical output current normalized by rated current (%)

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.







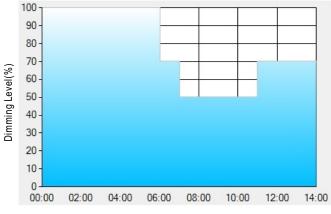
#### ※ DALI Interface (primary side; for DA-Type)

- 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	T5
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.

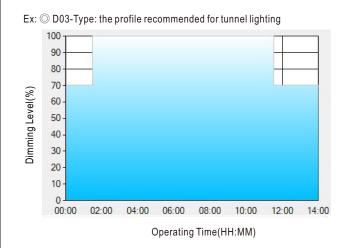
[2] The power supply will switch to the constant current level at 80% in turn, starting from 6:00pm, which is 01:00 after the power supply turns on.

[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-C 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.

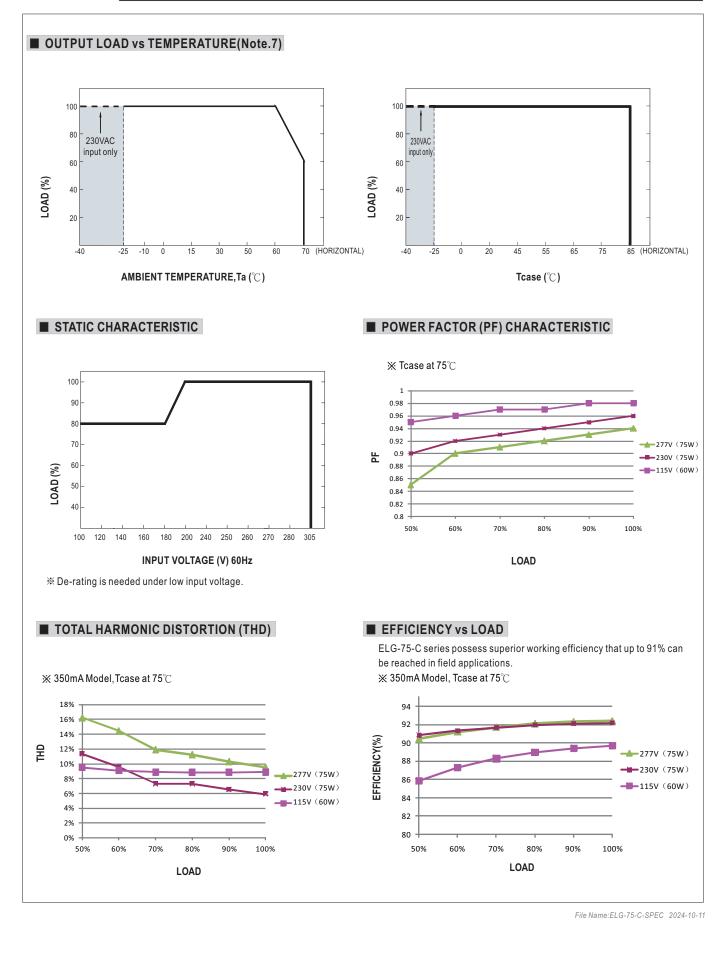
Example: If a tunnel lighting application adopts D03-Type, when turning on the power supply at 4:30pm, for instance:

[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.

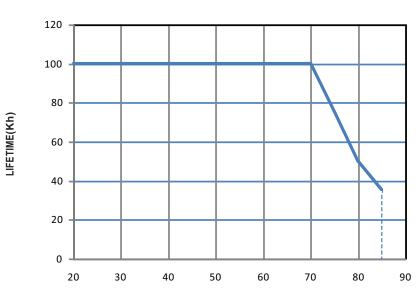






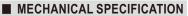
# ELG-75-C series

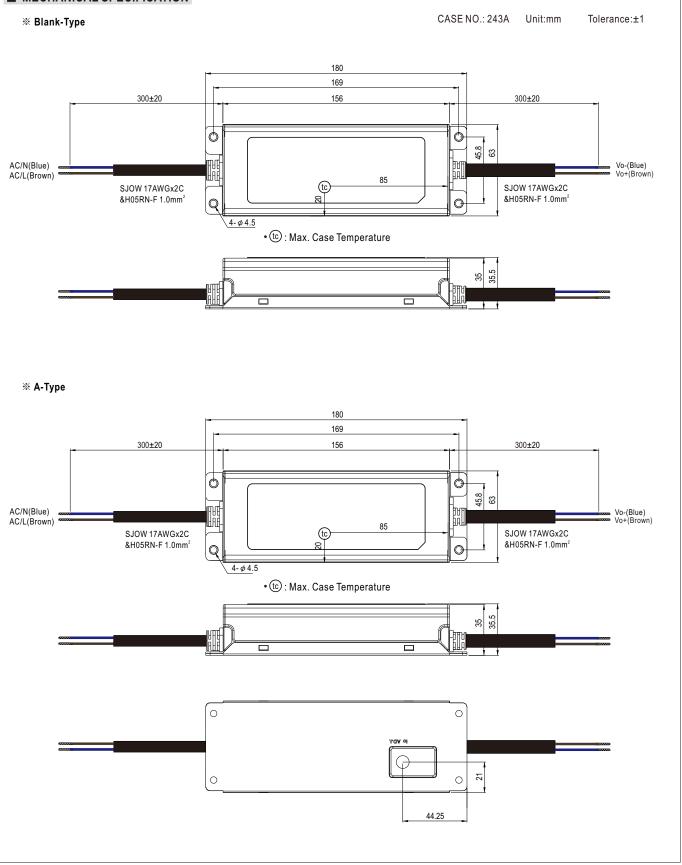
LIFE TIME



Tcase( °C )

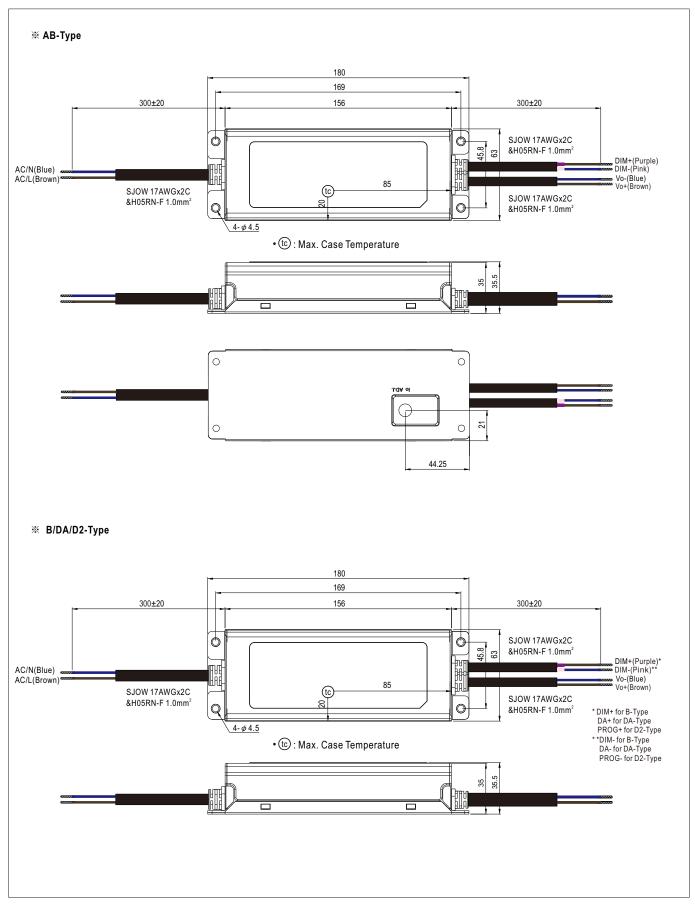




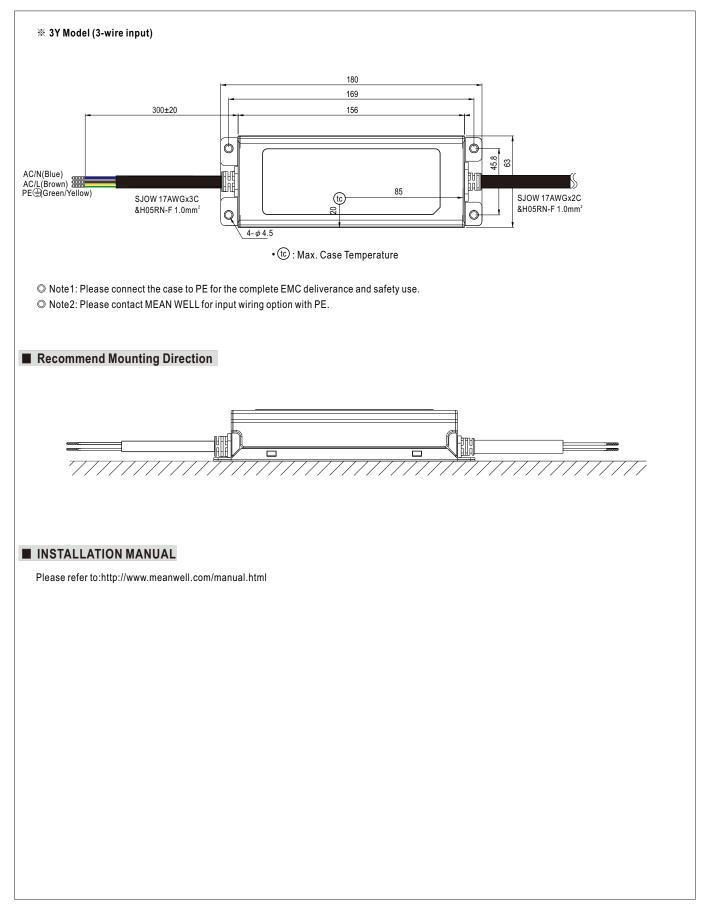


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### MEAN WELL:

ELG-75-C1050A ELG-75-C1400B ELG-75-C1400 ELG-75-C500B ELG-75-C1050 ELG-75-C500A ELG-75-C350A ELG-75-C350A ELG-75-C700A ELG-75-C1400A ELG-75-C700B ELG-75-C1050B ELG-75-C500 ELG-75-C350B ELG-75-C700