



- 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;
 Auxiliary DC output
- Typical lifetime>50000 hours
- 5 years warranty

Description

ELG-150 series is a 150W AC/DC LED driver featuring the dual mode constant voltage and constant current output. ELG-150 operates from 100~305VAC and offers models with different rated voltage ranging between 12V and 54V. Thanks to the high efficiency up to 91%, with the fanless design, the entire series is able to operate for -40 $^{\circ}$ C ~ +90 $^{\circ}$ 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-150 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 - 150 - 24	
	Input wiring type
	Function mode option 3Y:3-wire input for standard model
	——— Rated output voltage(12/24/36/42/48/54V)
	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

• Type "HL" for use in Class I, Division 2

hazardous (Classified) location.

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

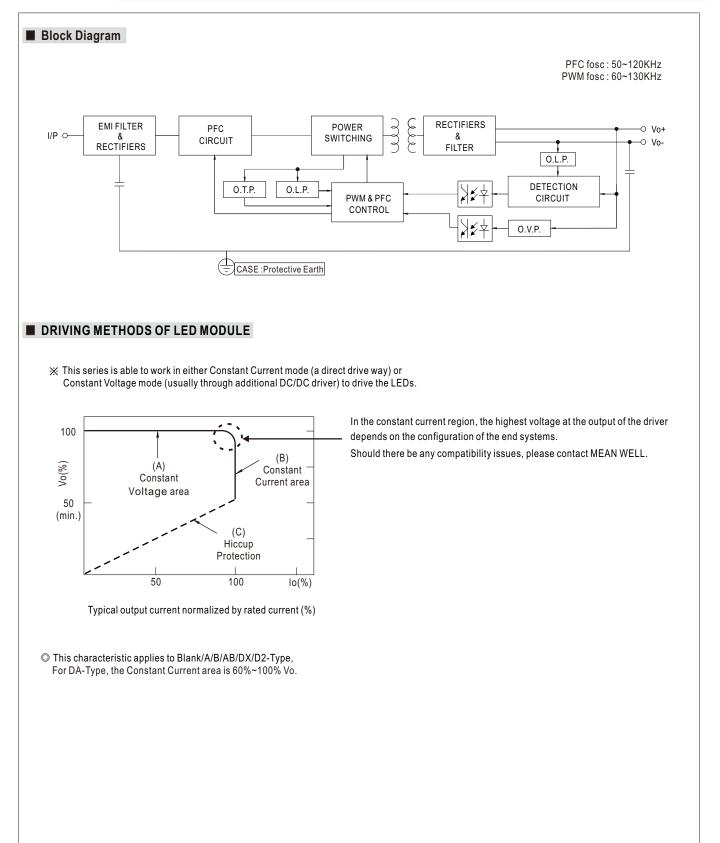
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SPECIFICATION

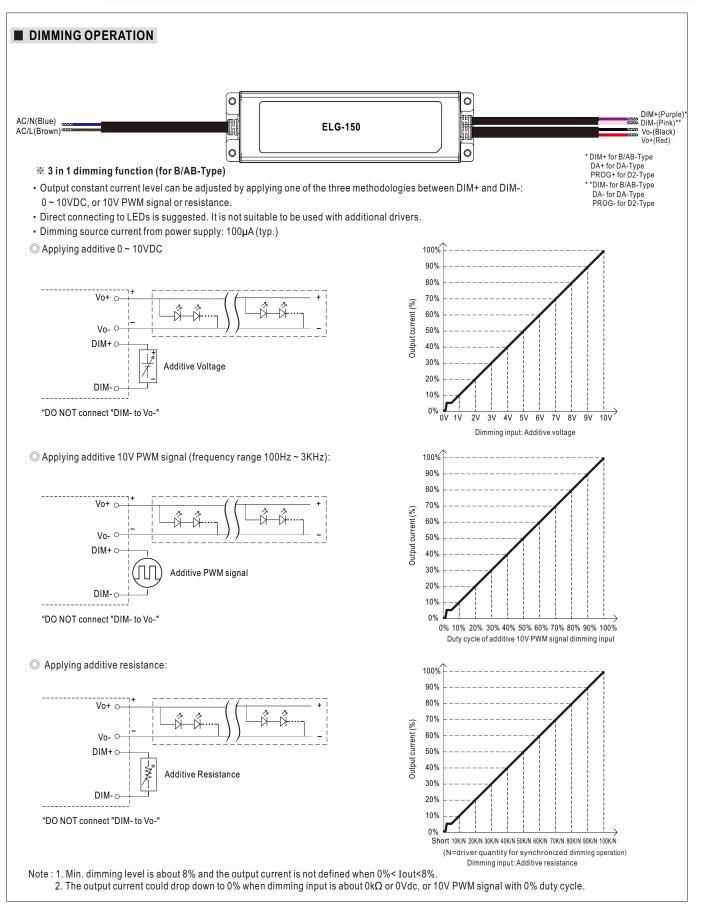
MODEL		ELG-150-12	ELG-150-24	ELG-150-36	ELG-150-42	ELG-150-48	ELG-150-54		
	DC VOLTAGE	12V	24V	36V	42V	48V	54V		
	CONSTANT CURRENT REGION Note.2	6 ~ 12V	12 ~ 24V	18~36V	21~42V	24 ~ 48V	27 ~ 54V		
	RATED CURRENT	10A	6.25A	4.17A	3.57A	3.13A	2.8A		
		100VAC ~ 180VAC							
		84W	105W	105W	105W	105W	105W		
	RATED	-	10000	10000	10011	10010	10000		
	POWER	200VAC ~ 305VAC	45014/	450 4144	450104	450.004	454 014		
		120W	150W	150.1W	150W	150.2W	151.2W		
	RIPPLE & NOISE (max.) Note.3	150mVp-p	200mVp-p	250mVp-p	250mVp-p	250mVp-p	350mVp-p		
	VOLTAGE ADJ. RANGE	Adjustable for A/AB-	Type only (via the bu	ilt-in potentiometer)					
	VOLTAGE ADJ. KANGE	10.8 ~ 13.2V	21.6 ~ 26.4V	32.4 ~ 39.6V	37.8~46.2V	43.2 ~ 52.8V	49 ~ 58V		
OUTPUT		Adjustable for A/AB-	Type only (via the bui	ilt-in potentiometer)					
	CURRENT ADJ. RANGE	5~10A	3.2 ~ 6.25A	2.1 ~ 4.17A	1.8 ~ 3.57A	1.56 ~ 3.13A	1.4 ~ 2.8A		
		±3.0%	±3.0%	±2.5%	±2.5%	±2.0%	±2.0%		
	VOLTAGE TOLERANCE Note.4								
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%		
	LOAD REGULATION	±2.0%	±1.0%	±1.0%	±0.5%	±0.5%	±0.5%		
	SETUP, RISE TIME Note.6	1600ms, 80ms/115VAC 500ms, 100ms/230VAC							
	HOLD UP TIME (Typ.)	10ms/115VAC, 230VAC							
		100 ~ 305VAC 142 ~ 431VDC							
	VOLTAGE RANGE Note.5	(Please refer to "STATIC CHARACTERISTIC" section)							
	FREQUENCY RANGE	47 ~ 63Hz		,					
	TREGOLINGT RANGE			> 0.00/0771/12.001 "	land.				
	POWER FACTOR			F≥0.92/277VAC@full HARACTERISTIC" se					
		*	. ,		•				
	TOTAL HARMONIC DISTORTION			≧60%/230VAC; @loa					
		`	IAL HARMONIC DI	STORTION(THD)" se	ection)	-			
INPUT	EFFICIENCY (Typ.)	88.5%	89%	90%	90%	90%	91%		
	AC CURRENT	1.7A / 115VAC 0	.9A / 230VAC 0.7	A/277VAC					
	INRUSH CURRENT(Typ.)				30VAC; Per NEMA 41	0			
	MAX. No. of PSUs on 16A	0022001/11/00/11				•			
		3 units (circuit break	ker of type B) / 6 units	(circuit breaker of ty	rpe C) at 230VAC				
		0.75 0.0771/0.0							
	LEAKAGE CURRENT	<0.75mA/277VAC							
	NO LOAD / STANDBY	No load power const	umption <0.5W for BI	ank / A / Dx / D2-Type					
	POWER CONSUMPTION	Standby power cons	sumption <0.5W for B	/ AB / DA-Type					
		95~108%							
	OVER CURRENT	Constant current limiting, recovers automatically after fault condition is removed							
	SHORT CIRCUIT			r fault condition is ren					
PROTECTION		14 ~ 18V	28 ~ 34V	41~48V	47 ~ 54V	54 0014	50 691/		
ROILCHON	OVER VOLTAGE				47~54V	54 ~ 62V	59 ~ 68V		
			oltage, re-power on t						
	OVER TEMPERATURE		oltage, re-power on t						
	WORKING TEMP.	Tcase=-40 ~ +90°C	(Please refer to " OU"	TPUT LOAD vs TEMP	PERATURE" section)				
	MAX. CASE TEMP.	Tcase=+90°C							
	WORKING HUMIDITY	20 ~ 95% RH non-condensing							
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH							
	TEMP. COEFFICIENT								
		±0.03%/°C (0 ~ 60°C) 10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes							
	VIBRATION			•			0.40		
						EN/EN/AS/NZS 61347			
	SAFETY STANDARDS					A/36B/42/42A/42B/48/	4/488/54/54A/54B or		
SAFETY &		EAC TP TC 004,GB19510.1,GB19510.14; IP65 or IP67; KC61347-1,KC61347-2-13 approved							
EMC	DALI STANDARDS			by request) for DA T	ypeoniy				
	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							
		Compliance to BS E	N/EN55015,BS EN/E	N61000-3-2 Class C	(@load ≥60%); BS E	N/EN61000-3-3; GB/1	17743,GB17625.1		
	EMC EMISSION	EAC TP TC 020; KC	KN15,KN61547			-			
		Compliance to BS E	N/EN61000-4-2,3,4,5	5,6,8,11; BS EN/EN61	547, light industry lev	el (surge immunity Line	e-Earth 6KV,		
	EMC IMMUNITY		TP TC 020; KC KN1						
	MTBF	2661.6K hrs min.	Telcordia SR-332 (B	ellcore) ;313.7K hrs m	nin. MIL-HDBK-217	F (25°C)			
OTHERS	DIMENSION	219*63*35.5mm (L*		,,		. /			
	PACKING								
		0.95Kg; 16pcs/16.0kg/0.77CUFT							
NOTE	 I. All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25℃ of ambient temperature. 2. Please refer to "DRIVING METHODS OF LED MODULE". For DA-Type, Constant Current region is 60%~100% of maximum voltage under rated power delivery. 8. Ripple & noise are measured at 20MHz of bandwidth by using a 12° twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 4. Tolerance : includes set up tolerance, line regulation and load regulation. 5. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTICS" sections for details. 5. 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. 7. 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) 8. This series meets the typical life expectancy of >50,000 hours of operation when Tcase, particularly (to point (or TMP, per DLC), is about 80°C or less. 9. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com/. 10. 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). 11. For any application note and IP water proof function installation caution, please refer our user manual before using. https://www.meanwell.com/Upload/PDF/ED.ED.Pdf 12. 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. 13. ELG-150-12(except blank/A-Type) is used for any light source that exempt from the ErP-Directive (EU) 2								







84~150W Constant Voltage + Constant Current LED Driver ELG-150 series





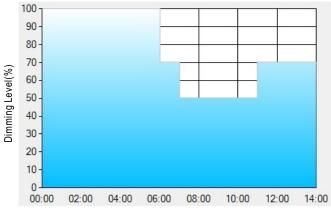
※ DALI Interface (primary side; for DA-Type)

- 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	Τ4	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.

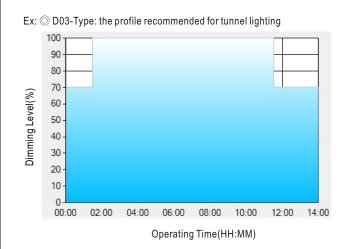
[2] The power supply will switch to the constant current level at 80% in turn, starting from 6:00pm, which is 01:00 after the power supply turns on.

[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.





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:

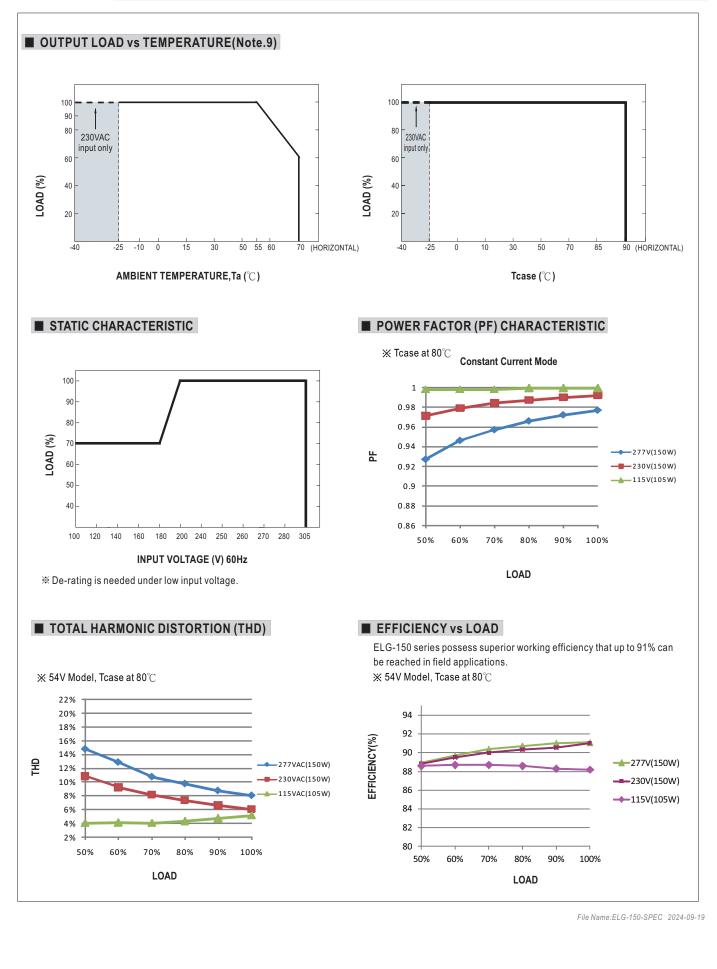
[1] The power supply will switch to the constant current level at 70% starting from 4:30pm.

[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.



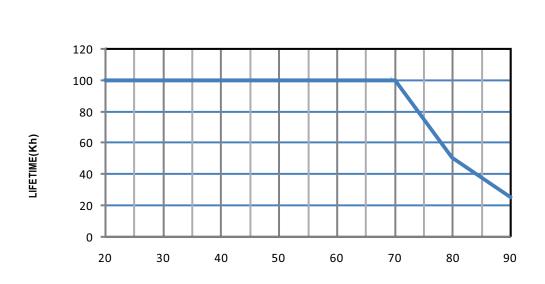
84~150W Constant Voltage + Constant Current LED Driver ELG-150 series





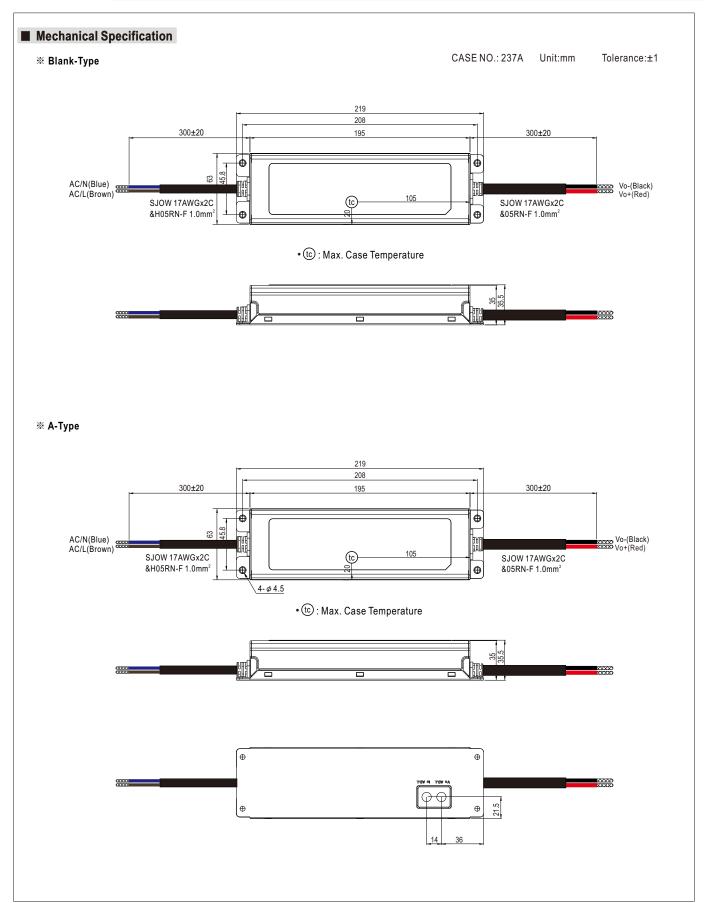
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LIFE TIME

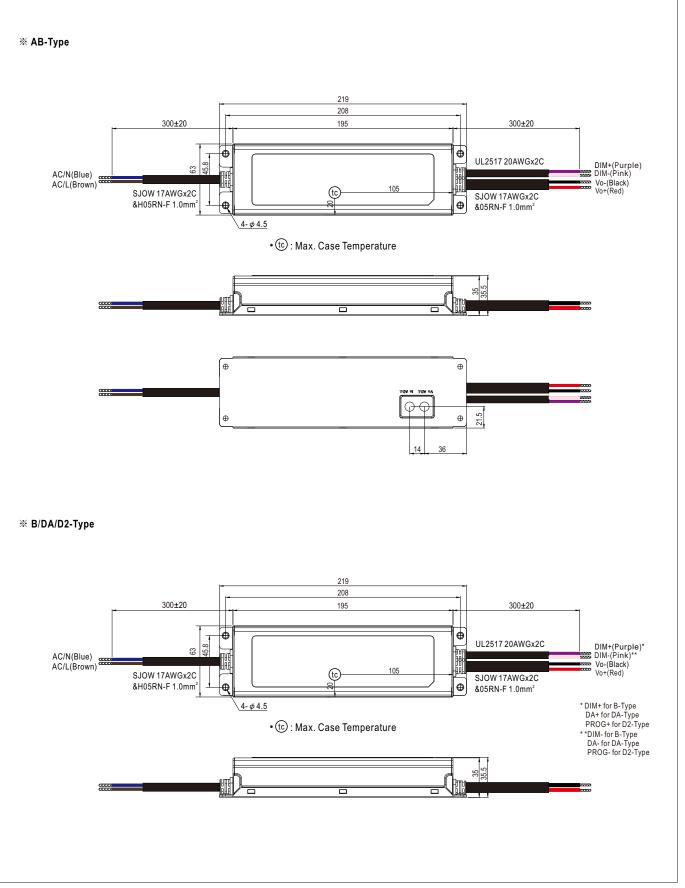


Tcase (°C)

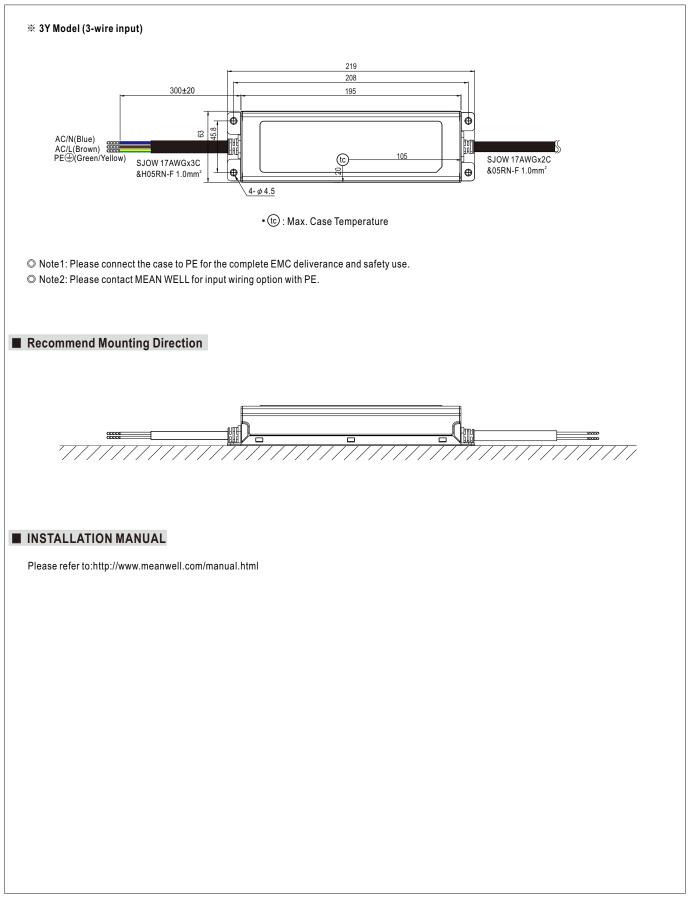












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