

A		
Dx		



SPECIFICATION

MODEL		ELG-200-12 🗌	ELG-200-24 🗌	ELG-200-36	ELG-200-42	ELG-200-48 🗌	ELG-200-54 🗌		
	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	16A	8.4A	5.55A	4.76A	4.16A	3.72A		
		200VAC ~ 305VAC							
	RATED POWER	192W	201.6W	199.8W	199.9W	199.68W	200.88W		
	RATED POWER	100VAC ~ 180VAC							
		144W	150W	149.76W	149.94W	149.76W	150.12W		
	RIPPLE & NOISE (max.) Note.3	150mVp-p	200mVp-p	250mVp-p	250mVp-p	250mVp-p	350mVp-p		
	VOLTAGE ADJ. RANGE	Adjustable for A/AB-1	Гуре only (via built-in ן	potentiometer)			- i		
OUTPUT		11.2 ~ 12.8V	22.4 ~ 25.6V	33.5 ~ 38.5V	39 ~ 45V	44.8 ~ 51.2V	50 ~ 57V		
01101	CURRENT ADJ. RANGE	Adjustable for A/AB-1	Гуре only (via built-in ן	potentiometer)					
	CURRENT ADJ. RANGE	8 ~ 16A	4.2 ~ 8.4A	2.78 ~ 5.55A	2.38 ~ 4.76A	2.08 ~ 4.16A	1.86 ~ 3.72A		
	VOLTAGE TOLERANCE Note.4	±3.0%	±2.0%	±2.0%	±2.0%	±2.0%	±2.0%		
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%		
	LOAD REGULATION	±2.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%		
	SETUP, RISE TIME Note.6	500ms, 100ms/230VA	AC, 1000ms, 100ms/1	115VAC					
	HOLD UP TIME (Typ.)	10ms/ 230VAC 10ms							
	VOLTAGE RANGE Note.5	100 ~ 305VAC 142 ~ 431VDC (Please refer to "STATIC CHARACTERISTIC" section)							
		47 ~ 63Hz		10 0000011j					
	FREQUENCY RANGE								
	POWER FACTOR		PF≧0.95/230VAC, PF VER FACTOR (PF) CH						
		`	· · /		,				
	TOTAL HARMONIC DISTORTION		50%/115VC,230VAC;						
		`	TAL HARMONIC DIS	. ,	,				
NPUT	EFFICIENCY (Typ.)	90%	92%	92%	92.5%	93%	93%		
	AC CURRENT	1.8A / 115VAC 1.3	2A / 230VAC 1.0A/	277VAC					
	INRUSH CURRENT(Typ.)	COLD START 60A(t)	width=510µs measured	at 50% Ipeak) at 230	VAC; Per NEMA 410				
	MAX. No. of PSUs on 16A	1 unite (airquit brook	or of two D) / 6 units	(airquit broaker of type	C) at 2201/AC				
	CIRCUIT BREAKER	4 units (circuit break	er of type B) / 6 units	(circuit breaker of type	e C) at 230VAC				
	LEAKAGE CURRENT	<0.75mA / 277VAC							
	NO LOAD / STANDBY	No load power consu	motion <0.5₩ for Blank						
	POWER CONSUMPTION Note.7	Inter.7 Standby power consumption <0.5W for B / AB / DA-Type							
	OVER CURRENT	95 ~ 108%							
			iting, recovers automat	,					
	SHORT CIRCUIT		ers automatically after						
ROTECTION	OVER VOLTAGE	13.5 ~ 18V	27 ~ 34V	42 ~ 49V	47 ~ 54V	54 ~ 63V	60 ~ 67V		
		Shut down output vo	oltage, re-power on to	recover					
	OVER TEMPERATURE	Shut down output vo	oltage, re-power on to	recover					
	WORKING TEMP.	Tcase=-40 ~ +90°€ (Please refer to " OUTI	PUT LOAD vs TEMPE	RATURE" section)				
	MAX. CASE TEMP.	Tcase=+90°℃							
	WORKING HUMIDITY	20 ~ 95% RH non-condensing							
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +90℃, 10 ~ 95	5% 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 STANDARDS	UL8750(type"HL"), CSA C22.2 No. 250.13-12;IEC/EN/AS/NZS 61347-1, IEC/EN/AS/NZS 61347-2-13 independent, EN62384; EAC TP TC 004;BIS IS15885(for 12/12A/12B/12DA/24/24B/24DA/36/36A/36B/42A/42B/48/48A/48B/54A/54B only); GB19510.14,GB19510.1; IP65 or IP67;KC61347-1,KC61347-2-13 approved							
	DALI STANDARDS								
	WITHSTAND VOLTAGE								
SAFETY &									
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25℃ / 70% RH							
		Compliance to EN55015,EN61000-3-2 Class C (@load≧50%) ; EN61000-3-3;GB17625.1,GB17743;EAC TP TC 020; KC KN15,KN61547							
		Compliance to EN61000-4-2,3,4,5,6,8,11; EN61547, light industry level (surge immunity Line-Earth 6KV, Line-Line 4KV);EAC TP TC 020; KC KN15,KN61547							
	MTBF	826.7K hrs min. Telcordia SR-332 (Bellcore) ; 200.8Khrs min. MIL-HDBK-217F (25°C)							
OTHERS	DIMENSION	244*71*37.5mm (L*\	,						
	PACKING	1.22Kg; 12pcs / 15.2Kg / 0.72CUFT							
IOTE				°C	C		°C		
				~~~					
		°C		°C					
		°C		°C					



144~200W Constant Voltage + Constant Current LED Driver ELG-200 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	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)
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- **: 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.







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* AB-Type (for 12V model)





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* B/DA/D2-Type (for 12V model)





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## * 3Y Model (3-wire input)



 $\circledcirc$  Note1: Please connect the case to PE for the complete EMC deliverance and safety use.

© Note2: Please contact MEAN WELL for input wiring option with PE.

# ■ INSTALLATION MANUAL

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