







Features

- · Constant Voltage + 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

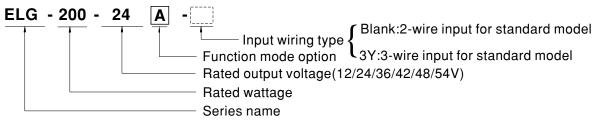
■ Applications

- · LED street lighting
- · LED architectural lighting
- · LED bay lighting
- · LED floodlighting
- Type "HL" for use in Class I, Division 2 hazardous (Classified) location.

Description

ELG-200 series is a 200W AC/DC LED driver featuring the dual mode constant voltage and constant current output. ELG-200 operates from $100{\sim}305$ VAC and offers models with different rated voltage ranging between 12V and 54V. Thanks to the high efficiency up to 93%, with the fanless design, the entire series is able to operate for $-40\,^{\circ}\mathrm{C} \sim +90\,^{\circ}\mathrm{C}$ 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-200 is equipped with various function options, such as dimming methodologies, so as to provide the optimal design flexibility for LED lighting system

■ Model Encoding



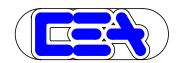
Туре	IP Level	Function	Note
Blank	IP67	lo and Vo fixed.	In Stock
Α	IP65	Io and Vo adjustable through built-in potentiometer.	In Stock
В	IP67	3 in 1 dimming function (0~10Vdc, 10V PWM signal and resistance)	In Stock
DA	IP67	DALI control technology.	In Stock
Dx	IP67	Built-in Smart timer dimming function by user request.	By request
D2	IP67	Built-in Smart timer dimming and programmable function.	In Stock





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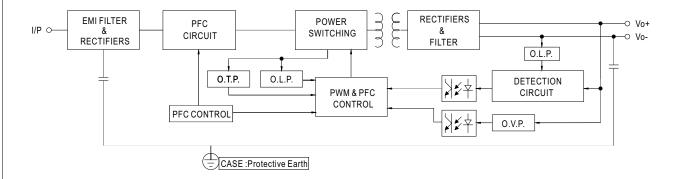
		ELG-200-12	ELG-200-24	ELG-200-36 L	ELG-200-42	ELG-200-48	ELG-200-54		
	DC VOLTAGE	12V	24V	36V	42V	48V	54V		
	CONSTANT CURRENT REGION Note.2	6 ~ 12V	12 ~ 24V	18 ~ 36V	21 ~ 42V	24 ~ 48V	27 ~ 54V		
	RATED CURRENT	16A	8.4A	5.55A	4.76A	4.16A	3.72A		
		200VAC ~ 305VAC							
	RATED POWER	192W	201.6W	199.8W	199.9W	199.68W	200.88W		
	NATED TOWER	100VAC ~ 180VAC		1	<u>'</u>	<u>'</u>	<u>'</u>		
		144W	150W	149.76W	149.94W	149.76W	150.12W		
	DIDDLE O MOIOE ()								
	RIPPLE & NOISE (max.) Note.3		200mVp-p	250mVp-p	250mVp-p	250mVp-p	350mVp-p		
	VOLTAGE ADJ. RANGE	Adjustable for A-Ty	pe only (via built-in pot	entiometer)					
MITDIIT		11.2 ~ 12.8V	22.4 ~ 25.6V	33.5 ~ 38.5V	39 ~ 45V	44.8 ~ 51.2V	50 ~ 57V		
OUTPUT	CURRENT ADJ. RANGE	Adjustable for A-Type only (via built-in 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%		
			1		10.576	±0.070	1 20.070		
	SETUP, RISE TIME Note.6		VAC, 1000ms, 100ms	STIDVAC					
	HOLD UP TIME (Typ.)	10ms/ 230VAC 10r	15/ 115VAC						
	VOLTAGE RANGE Note.5	100 ~ 305VAC	142 ~ 431VDC						
	. JEINGERANGE Note.5	(Please refer to "STATIC CHARACTERISTIC" section)							
	FREQUENCY RANGE	47 ~ 63Hz							
	DOWED EACTOR		PF≧0.95/230VAC, PF						
	POWER FACTOR	(Please refer to "PO	WER FACTOR (PF) CH	HARACTERISTIC" sec	tion)				
		THD< 20%(@load	≥50%/115VC,230VAC	C: @load≧75%/277VA	AC)				
	TOTAL HARMONIC DISTORTION		OTAL HARMONIC DIS						
NPUT	EFFICIENCY (Typ.)	90%	92%	92%	92.5%	93%	93%		
NF U I	AC CURRENT			277VAC	92.370	93 /0	95 /6		
					201/40 B NEMA 440				
	INRUSH CURRENT(Typ.)	COLD START 60A	twidth=510µs measure	ed at 50% lpeak) at 23	BUVAC; Per NEMA 410				
	MAX. No. of PSUs on 16A	4 units (circuit brea	ker of type B) / 6 units	(circuit breaker of tyr	ne C) at 230VAC				
	CIRCUIT BREAKER	4 units (circuit breaker of type B) / 6 units (circuit breaker of type C) at 230VAC							
	LEAKAGE CURRENT	<0.75mA / 277VAC							
	NO LOAD / STANDBY	No load power con:	sumption <0.5W for Bla	ank / A / Dx / D-Type					
	POWER CONSUMPTION Note.7	No load power consumption <0.5W for Blank / A / Dx / D-Type Note.7 Standby power consumption <0.5W for B / DA-Type							
		95 ~ 108%							
	OVER CURRENT	Constant current limiting, recovers automatically after fault condition is removed							
			•						
DOTEOTION	SHORT CIRCUIT		vers automatically after			T			
ROTECTION	OVER VOLTAGE	13.5 ~ 18V	27 ~ 34V	42 ~ 49V	47 ~ 54V	54 ~ 63V	60 ~ 67V		
	O V Z K V O Z J K O Z	Shut down output	oltage, re-power on t	o recover					
	OVER TEMPERATURE	Shut down output voltage, re-power on to recover							
		Tcase=-40 ~ +90°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)							
	WORKING TEMP.	10ase==40 130 C	(Please refer to "OUT	TPUT LOAD vs TEMPE	ERATURE" section)				
	WORKING TEMP. MAX. CASE TEMP.	Tcase=+90°C	(Please refer to " OUT	TPUT LOAD vs TEMP	ERATURE" section)				
	MAX. CASE TEMP.	Tcase=+90°C	,	TPUT LOAD vs TEMP	ERATURE" section)				
:NVIRONMENT	MAX. CASE TEMP. WORKING HUMIDITY	Tcase=+90°C 20 ~ 95% RH non-c	ondensing	TPUT LOAD vs TEMP	ERATURE" section)				
NVIRONMENT	MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY	Tcase=+90°C 20 ~ 95% RH non-c -40 ~ +90°C, 10 ~ 9	ondensing 5% RH	FUT LOAD vs TEMP	ERATURE" section)				
NVIRONMENT	MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT	Tcase=+90°C 20 ~ 95% RH non-c -40 ~ +90°C, 10 ~ 9 ±0.03%/°C (0 ~ 50°	condensing 15% RH						
NVIRONMENT	MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY	Tcase=+90°C $20 \sim 95\%$ RH non-c $-40 \sim +90$ °C, $10 \sim 9$ $\pm 0.03\%$ °C ($0 \sim 50$ ° $10 \sim 500$ Hz, $50 \sim 12$	condensing 15% RH C) nin./1cycle, period for	72min. each along X,	Y, Z axes				
NVIRONMENT	MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION	Tcase=+90°C 20 ~ 95% RH non-c -40 ~ +90°C, 10 ~ 9 ±0.03%/°C (0 ~ 50° 10 ~ 500Hz, 5G 12ı UL8750(type"HL"),	condensing 15% RH C) nin./1cycle, period for CSA C22.2 No. 250.13	72min. each along X, 3-12; ENEC AS/NZS II	Y, Z axes	S EN61347-2-13 inde	pendent, EN62384;		
NVIRONMENT	MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT	Tcase=+90°C 20 ~ 95% RH non-c -40 ~ +90°C, 10 ~ 9 ±0.03%/°C (0 ~ 50° 10 ~ 500Hz, 5G 12ı UL8750(type"HL"),	condensing 15% RH C) nin./1cycle, period for	72min. each along X, 3-12; ENEC AS/NZS II	Y, Z axes	S EN61347-2-13 inde	pendent, EN62384;		
NVIRONMENT	MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION	Tcase=+90°C 20 ~ 95% RH non-c -40 ~ +90°C, 10 ~ 9 ±0.03%/°C (0 ~ 50° 10 ~ 500Hz, 5G 12ı UL8750(type"HL"), GB19510.14,GB19	condensing 15% RH C) nin./1cycle, period for CSA C22.2 No. 250.13	72min. each along X, 3-12; ENEC AS/NZS II proved	Y, Z axes	S EN61347-2-13 inde	pendent, EN62384;		
	MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS	Tcase=+90°C 20 ~ 95% RH non-c -40 ~ +90°C, 10 ~ 9 ±0.03%/°C (0 ~ 50° 10 ~ 500Hz, 5G 12i UL8750(type"HL"), GB19510.14,GB19 Compiy with IEC62	condensing 15% RH C) min./1cycle, period for CSA C22.2 No. 250.13 510.1; IP65 or IP67 ap	72min. each along X, 3-12; ENEC AS/NZS II proved A-Type only	Y, Z axes	S EN61347-2-13 inde	pendent, EN62384;		
SAFETY &	MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS DALI STANDARDS WITHSTAND VOLTAGE	Tcase=+90°C 20 ~ 95% RH non-c -40 ~ +90°C, 10 ~ 9 ±0.03%/°C (0 ~ 50° 10 ~ 500Hz, 5G 12i UL8750(type"HL"), GB19510.14,GB19 Compiy with IEC62 I/P-O/P:3.75KVAC	condensing 15% RH C) min./1cycle, period for CSA C22.2 No. 250.13 510.1; IP65 or IP67 ap 386-101,102,207 for D. I/P-FG:2.0KVAC	72min. each along X, 3-12; ENEC AS/NZS II proved A-Type only O/P-FG:1.5KVAC	Y, Z axes EC EN61347-1, AS/NZ	S EN61347-2-13 inde	pendent, EN62384;		
SAFETY &	MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS DALI STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE	Tcase=+90°C 20 ~ 95% RH non-c -40 ~ +90°C, 10 ~ 9 ±0.03%/°C (0 ~ 50° 10 ~ 500Hz, 5G 12i UL8750(type"HL"), GB19510.14,GB19 Compiy with IEC62 I/P-O/P:3.75KVAC	ondensing /5% RH C) min./1cycle, period for CSA C22.2 No. 250.13 510.1; IP65 or IP67 ap 386-101,102,207 for D. I/P-FG:2.0KVAC /P-FG:100M Ohms / 5	72min. each along X, 3-12; ENEC AS/NZS II proved A-Type only O/P-FG:1.5KVAC 00VDC / 25°C / 70% F	Y, Z axes EC EN61347-1, AS/NZ		pendent, EN62384;		
SAFETY &	MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS DALI STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	Tcase=+90°C 20 ~ 95% RH non-c -40 ~ +90°C, 10 ~ 9 ±0.03%/°C (0 ~ 50° 10 ~ 500Hz, 5G 12i UL8750(type"HL"), GB19510.14,GB19 Compiy with IEC62 I/P-O/P:3.75KVAC I/P-O/P, I/P-FG, O Compliance to EN5	ondensing 15% RH C) min./1cycle, period for CSA C22.2 No. 250.13 510.1; IP65 or IP67 ap 386-101,102,207 for D. I/P-FG:2.0KVAC /P-FG:100M Ohms / 5 5015,EN61000-3-2 CI	72min. each along X, 3-12; ENEC AS/NZS II proved A-Type only O/P-FG:1.5KVAC 00VDC / 25°C / 70% F lass C (@load ≧ 50%)	Y, Z axes EC EN61347-1, AS/NZ RH ; EN61000-3-3;GB17	625.1,GB17743			
AFETY &	MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS DALI STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY	Tcase=+90°C 20 ~ 95% RH non-c -40 ~ +90°C, 10 ~ 9 ±0.03%/°C (0 ~ 50° 10 ~ 500Hz, 5G 12i UL8750(type"HL"), GB19510.14,GB19 Compiy with IEC62 I/P-O/P:3.75KVAC I/P-O/P, I/P-FG, O Compliance to EN5	ondensing 15% RH C) min./1cycle, period for CSA C22.2 No. 250.13 510.1; IP65 or IP67 ap 386-101,102,207 for D. I/P-FG:2.0KVAC /P-FG:100M Ohms / 5 5015,EN61000-3-2 Cl 1000-4-2,3,4,5,6,8,11;	72min. each along X, 3-12; ENEC AS/NZS II proved A-Type only O/P-FG:1.5KVAC :00VDC / 25°C / 70% F lass C (@load ≥ 50%) ; EN61547, light indus	Y, Z axes EC EN61347-1, AS/NZ RH ; EN61000-3-3;GB17 try level (surge immur	625.1,GB17743 ity Line-Earth 6KV, Lir			
AFETY &	MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS DALI STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY MTBF	Tcase=+90°C 20 ~ 95% RH non-c -40 ~ +90°C, 10 ~ 9 ±0.03%/°C (0 ~ 50° 10 ~ 500Hz, 5G 12i UL8750(type"HL"), GB19510.14,GB19 Compiy with IEC62 I/P-O/P:3.75KVAC I/P-O/P, I/P-FG, O Compliance to EN5 Compliance to EN6 826.7K hrs min.	ondensing 15% RH C) min./1cycle, period for CSA C22.2 No. 250.13 510.1; IP65 or IP67 ap 386-101,102,207 for D. I/P-FG:2.0KVAC /P-FG:100M Ohms / 5 5015,EN61000-3-2 CI 1000-4-2,3,4,5,6,8,11; Telcordia SR-332 (Bell	72min. each along X, 3-12; ENEC AS/NZS II proved A-Type only O/P-FG:1.5KVAC :00VDC / 25°C / 70% F lass C (@load ≥ 50%) ; EN61547, light indus	Y, Z axes EC EN61347-1, AS/NZ RH ; EN61000-3-3;GB17 try level (surge immur	625.1,GB17743 ity Line-Earth 6KV, Lir			
AFETY &	MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS DALI STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY MTBF DIMENSION	Tcase=+90°C 20 ~ 95% RH non-c -40 ~ +90°C, 10 ~ 9 ±0.03%/°C (0 ~ 50° 10 ~ 500Hz, 5G 12i UL8750(type"HL"), GB19510.14,GB19 Compiy with IEC62 I/P-O/P:3.75KVAC I/P-O/P, I/P-FG, O Compliance to EN6 826.7K hrs min. 244*71*37.5mm (L	condensing 15% RH C) min./1cycle, period for CSA C22.2 No. 250.13 510.1; IP65 or IP67 ap 386-101,102,207 for D. 1/P-FG:2.0KVAC /P-FG:100M Ohms / 5 5015,EN61000-3-2 CI 1000-4-2,3,4,5,6,8,11; Telcordia SR-332 (Bell *W*H)	72min. each along X, 3-12; ENEC AS/NZS II proved A-Type only O/P-FG:1.5KVAC :00VDC / 25°C / 70% F lass C (@load ≥ 50%) ; EN61547, light indus	Y, Z axes EC EN61347-1, AS/NZ RH ; EN61000-3-3;GB17 try level (surge immur	625.1,GB17743 ity Line-Earth 6KV, Lir			
AFETY &	MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS DALI STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY MTBF	Tcase=+90°C 20 ~ 95% RH non-c -40 ~ +90°C, 10 ~ 9 ±0.03%/°C (0 ~ 50° 10 ~ 500Hz, 5G 12i UL8750(type"HL"), GB19510.14,GB19 Compiy with IEC62 I/P-O/P:3.75KVAC I/P-O/P, I/P-FG, O Compliance to EN5 Compliance to EN6 826.7K hrs min.	condensing 15% RH C) min./1cycle, period for CSA C22.2 No. 250.13 510.1; IP65 or IP67 ap 386-101,102,207 for D. 1/P-FG:2.0KVAC /P-FG:100M Ohms / 5 5015,EN61000-3-2 CI 1000-4-2,3,4,5,6,8,11; Telcordia SR-332 (Bell *W*H)	72min. each along X, 3-12; ENEC AS/NZS II proved A-Type only O/P-FG:1.5KVAC :00VDC / 25°C / 70% F lass C (@load ≥ 50%) ; EN61547, light indus	Y, Z axes EC EN61347-1, AS/NZ RH ; EN61000-3-3;GB17 try level (surge immur	625.1,GB17743 ity Line-Earth 6KV, Lir			
SAFETY & EMC	MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS DALI STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY MTBF DIMENSION PACKING 1. All parameters NOT specia 2. Please refer to "DRIVING N	Tcase=+90°C 20 ~ 95% RH non-c -40 ~ +90°C, 10 ~ 9 ±0.03%/°C (0 ~ 50° 10 ~ 500Hz, 5G 12i UL8750(type"HL"), GB19510.14,GB19 Compiy with IEC62 I/P-O/P:3.75KVAC I/P-O/P, I/P-FG, O. Compliance to EN5 Compliance to EN6 826.7K hrs min. 244*71*37.5mm (L 1.22Kg; 12pcs / 15. Illy mentioned are m METHODS OF LED	ondensing 15% RH C) min./1cycle, period for CSA C22.2 No. 250.13 510.1; IP65 or IP67 ap 386-101,102,207 for D. I/P-FG:2.0KVAC /P-FG:100M Ohms / 5 5015,EN61000-3-2 CI 1000-4-2,3,4,5,6,8,11; Telcordia SR-332 (Bell W*H) 2Kg / 0.72CUFT easured at 230VAC ir MODULE".	72min. each along X, 3-12; ENEC AS/NZS II proved A-Type only O/P-FG:1.5KVAC 00VDC / 25°C / 70% F lass C (@load ≥ 50%); EN61547, light indus lcore); 200.8Khrs min	Y, Z axes EC EN61347-1, AS/NZ RH ; EN61000-3-3;GB17 try level (surge immur MIL-HDBK-217F	625.1,GB17743 ity Line-Earth 6KV, Lir (25°C) mperature.	ie-Line 4KV)		
SAFETY & EMC	MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS DALI STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY MTBF DIMENSION PACKING 1. All parameters NOT specia 2. Please refer to "DRIVING N 3. Ripple & noise are measure	Tcase=+90°C 20 ~ 95% RH non-c -40 ~ +90°C, 10 ~ 9 ±0.03%/°C (0 ~ 50° 10 ~ 500Hz, 5G 12i UL8750(type"HL"), GB19510.14,GB19 Compiy with IEC62 I/P-O/P:3.75KVAC I/P-O/P, I/P-FG, O Compliance to EN5 Compliance to EN6 826.7K hrs min. 244*71*37.5mm (L 1.22Kg; 12pcs / 15. Illy mentioned are m METHODS OF LED ed at 20MHz of ban	ondensing 15% RH C) min./1cycle, period for CSA C22.2 No. 250.13 510.1; IP65 or IP67 ap 386-101,102,207 for D. I/P-FG:2.0KVAC /P-FG:100M Ohms / 5 5015,EN61000-3-2 CI 1000-4-2,3,4,5,6,8,11; Telcordia SR-332 (Bell "W"H) 2Kg / 0.72CUFT easured at 230VAC ir MODULE". dwidth by using a 12"	72min. each along X, 3-12; ENEC AS/NZS II proved A-Type only O/P-FG:1.5KVAC 00VDC / 25°C / 70% Flass C (@load ≥ 50%); EN61547, light indus lcore); 200.8Khrs min	Y, Z axes EC EN61347-1, AS/NZ RH ; EN61000-3-3;GB17 try level (surge immur MIL-HDBK-217F	625.1,GB17743 ity Line-Earth 6KV, Lir (25°C) mperature.	ie-Line 4KV)		
SAFETY & EMC	MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS DALI STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY MTBF DIMENSION PACKING 1. All parameters NOT specia 2. Please refer to "DRIVING N 3. Ripple & noise are measur 4. Tolerance: includes set up	Tcase=+90°C 20 ~ 95% RH non-c -40 ~ +90°C, 10 ~ 9 ±0.03%/°C (0 ~ 50° 10 ~ 500Hz, 5G 12i UL8750(type"HL"), GB19510.14,GB19 Compiy with IEC62 I/P-O/P, I/P-FG, O Compliance to EN5 Compliance to EN6 826.7K hrs min. 244*71*37.5mm (L 1.22Kg; 12pcs / 15. Illy mentioned are m METHODS OF LED ed at 20MHz of ban tolerance, line regu	condensing 15% RH C) min./1cycle, period for CSA C22.2 No. 250.13 510.1; IP65 or IP67 ap 386-101,102,207 for D. I/P-FG:2.0KVAC /P-FG:100M Ohms / 5 5015,EN61000-3-2 Cl 1000-4-2,3,4,5,6,8,11; Telcordia SR-332 (Bell WH) 2Kg / 0.72CUFT easured at 230VAC ir MODULE". dwidth by using a 12" lation and load regula'	72min. each along X, 3-12; ENEC AS/NZS If proved A-Type only O/P-FG:1.5KVAC 00VDC / 25°C / 70% Flass C (@load ≥ 50%); EN61547, light indus lcore); 200.8Khrs min twisted pair-wire territion.	Y, Z axes EC EN61347-1, AS/NZ RH ; EN61000-3-3;GB17 try level (surge immur . MIL-HDBK-217F	625.1,GB17743 ity Line-Earth 6KV, Lin (25°ℂ) mperature. 447uf parallel capacite	ie-Line 4KV)		
SAFETY & EMC	MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS DALI STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY MTBF DIMENSION PACKING 1. All parameters NOT specia 2. Please refer to "DRIVING N 3. Ripple & noise are measur 4. Tolerance: includes set up 5. De-rating may be needed u 6. Length of set up time is me	Tcase=+90°C 20 ~ 95% RH non-c -40 ~ +90°C, 10 ~ 9 ±0.03%/°C (0 ~ 50° 10 ~ 500Hz, 5G 12i UL8750(type"HL"), GB19510.14,GB19 Compiy with IEC62 I/P-O/P;3.75KVAC I/P-O/P, I/P-FG, O Compliance to EN6 826.7K hrs min. 244*71*37.5mm (L' 1.22Kg; 12pcs / 15. Illy mentioned are m METHODS OF LED ed at 20MHz of ban tolerance, line regu under low input volta easured at first cold:	condensing 15% RH C) min./1cycle, period for CSA C22.2 No. 250.13 510.1; IP65 or IP67 ap 386-101,102,207 for D. 1/P-FG:2.0KVAC /P-FG:100M Ohms / 5 5015,EN61000-3-2 Cl 1000-4-2,3,4,5,6,8,11; Telcordia SR-332 (Bell W*H) 2Kg / 0.72CUFT easured at 230VAC ir MODULE". dwidth by using a 12" lation and load regulat ges. Please refer to " start. Turning ON/OFF	72min. each along X, 3-12; ENEC AS/NZS II proved A-Type only O/P-FG:1.5KVAC 00VDC / 25°C / 70% F lass C (@load ≥ 50%); EN61547, light indus lcore); 200.8Khrs min nput, rated current an twisted pair-wire territion. STATIC CHARACTE F the driver may lead	Y, Z axes EC EN61347-1, AS/NZ RH ; EN61000-3-3;GB17 try level (surge immur i. MIL-HDBK-217F and 25°C of ambient te minated with a 0.1uf 8 RISTIC" sections for	625.1,GB17743 ity Line-Earth 6KV, Lin (25°C) mperature. 447uf parallel capacited	ie-Line 4KV)		
SAFETY & EMC	MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS DALI STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY MTBF DIMENSION PACKING 1. All parameters NOT specia 2. Please refer to "DRIVING N 3. Ripple & noise are measure 4. Tolerance: includes set up 5. De-rating may be needed u 6. Length of set up time is me 7. No load/standby power cou	Tcase=+90°C 20 ~ 95% RH non-c -40 ~ +90°C, 10 ~ 9 ±0.03%/°C (0 ~ 50° 10 ~ 500Hz, 5G 12i UL8750(type"HL"), GB19510.14,GB19 Compiy with IEC62 I/P-O/P:3.75KVAC I/P-O/P, I/P-FG, O. Compliance to EN5 Compliance to EN5 Compliance to EN6 826.7K hrs min. 244*71*37.5mm (L 1.22Kg; 12pcs / 15. Illy mentioned are m METHODS OF LED ed at 20MHz of ban tolerance, line regu under low input volta basured at first cold consumption is specifi	ondensing 15% RH C) min./1cycle, period for CSA C22.2 No. 250.13 510.1; IP65 or IP67 ap 386-101,102,207 for D. I/P-FG:2.0KVAC /P-FG:100M Ohms / 5 5015,EN61000-3-2 CI 1000-4-2,3,4,5,6,8,11; Telcordia SR-332 (Bell W*H) 2Kg / 0.72CUFT easured at 230VAC ir MODULE". dwidth by using a 12" lation and load regulat ges. Please refer to "5 start. Turning ON/OFF ied for 230VAC input	72min. each along X, 3-12; ENEC AS/NZS II proved A-Type only O/P-FG:1.5KVAC 00VDC / 25°C / 70% F lass C (@load ≥ 50%); EN61547, light indus lcore); 200.8Khrs min nput, rated current an twisted pair-wire territion. STATIC CHARACTE = the driver may lead it.	Y, Z axes EC EN61347-1, AS/NZ RH ; EN61000-3-3;GB17 try level (surge immur MIL-HDBK-217F ad 25°C of ambient te minated with a 0.1uf 8 RISTIC" sections for to increase of the se	625.1,GB17743 ity Line-Earth 6KV, Lir (25°C) mperature. 4 47uf parallel capacite details. t up time.	ie-Line 4KV)		
SAFETY & EMC	MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS DALI STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY MTBF DIMENSION PACKING 1. All parameters NOT specia 2. Please refer to "DRIVING N 3. Ripple & noise are measure 4. Tolerance: includes set up 5. De-rating may be needed u 6. Length of set up time is me 7. No load/standby power cou 8. The driver is considered as	Tcase=+90°C 20 ~ 95% RH non-c -40 ~ +90°C, 10 ~ 9 ±0.03%/°C (0 ~ 50° 10 ~ 500Hz, 5G 12i UL8750(type"HL"), GB19510.14,GB19 Compiy with IEC62 I/P-O/P:3.75KVAC I/P-O/P, I/P-FG, O Compliance to EN5 Compliance to EN5 Compliance to EN6 826.7K hrs min. 244*71*37.5mm (L 1.22Kg; 12pcs / 15. Illy mentioned are m METHODS OF LED ed at 20MHz of ban of tolerance, line regulance to winput volta essured at first cold insumption is specifical accomponent that we	condensing 15% RH C) min./1cycle, period for CSA C22.2 No. 250.13 510.1; IP65 or IP67 ap 386-101,102,207 for D. I/P-FG:2.0KVAC /P-FG:100M Ohms / 5 5015,EN61000-3-2 CI 1000-4-2,3,4,5,6,8,11; Telcordia SR-332 (Bell "W"H) 2Kg / 0.72CUFT easured at 230VAC ir MODULE". dwidth by using a 12" lation and load regular ges. Please refer to "5 start. Turning ON/OFF ied for 230VAC inpu vill be operated in con	72min. each along X, 3-12; ENEC AS/NZS II proved A-Type only O/P-FG:1.5KVAC 00VDC / 25°C / 70% Flass C (@load ≥ 50%); EN61547, light indus lcore); 200.8Khrs min twisted pair-wire territion. STATIC CHARACTE = the driver may lead it. nbination with final economics.	Y, Z axes EC EN61347-1, AS/NZ RH ; EN61000-3-3;GB17 try level (surge immur i. MIL-HDBK-217F and 25°C of ambient te minated with a 0.1uf 8 RISTIC" sections for to increase of the se quipment. Since EMC	625.1,GB17743 ity Line-Earth 6KV, Lin (25°C) mperature. 4 47uf parallel capacite details. t up time. performance will be a	ie-Line 4KV)		
AFETY & MC OTHERS	MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS DALI STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY MTBF DIMENSION PACKING 1. All parameters NOT specia 2. Please refer to "DRIVING N 3. Ripple & noise are measure 4. Tolerance: includes set up 5. De-rating may be needed u 6. Length of set up time is me 7. No load/standby power cou	Tcase=+90°C 20 ~ 95% RH non-c -40 ~ +90°C, 10 ~ 9 ±0.03%/°C (0 ~ 50° 10 ~ 500Hz, 5G 12ı UL8750(type"HL"), GB19510.14,GB19 Compiy with IEC62 I/P-O/P; I/P-FG, O Compliance to EN6 826.7K hrs min. 244*71*37.5mm (L 1.22Kg; 12pcs / 15. Illy mentioned are m METHODS OF LED ed at 20MHz of ban tolerance, line regu under low input volta easured at first cold : nsumption is specific a component that w nal equipment manu	condensing 15% RH C) min./1cycle, period for CSA C22.2 No. 250.13 510.1; IP65 or IP67 ap 386-101,102,207 for D. I/P-FG:2.0KVAC /P-FG:100M Ohms / 5 5015,EN61000-3-2 Cl 1000-4-2,3,4,5,6,8,11; Telcordia SR-332 (Bell "W*H) 2Kg / 0.72CUFT easured at 230VAC ir MODULE". dwidth by using a 12" lation and load regular ges. Please refer to "S start. Turning ON/OFF ied for 230VAC inpu ill be operated in con facturers must re-qual	72min. each along X, 3-12; ENEC AS/NZS II proved A-Type only O/P-FG:1.5KVAC 00VDC / 25°C / 70% F lass C (@load ≥ 50%); EN61547, light indus lcore); 200.8Khrs min nput, rated current an twisted pair-wire territion. STATIC CHARACTE = the driver may lead it. nbination with final eclify EMC Directive on	Y, Z axes EC EN61347-1, AS/NZ RH ; EN61000-3-3;GB17 try level (surge immur i. MIL-HDBK-217F ad 25°C of ambient te ninated with a 0.1uf 8 RISTIC" sections for to increase of the se quipment. Since EMC the complete installa	625.1,GB17743 ity Line-Earth 6KV, Lin (25°C) mperature. 447uf parallel capacite details. t up time. performance will be a tion again.	pe-Line 4KV) or. affected by the		





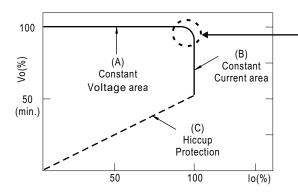
■ Block Diagram

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



■ DRIVING METHODS OF LED MODULE

X This series is able to work in either Constant Current mode (a direct drive way) or Constant Voltage mode (usually through additional DC/DC driver) to 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.



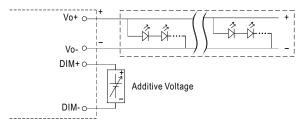


■ DIMMING OPERATION



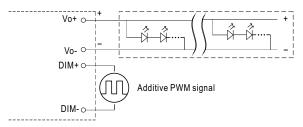
※ 3 in 1 dimming function (for B-Type)

- Output constant current level can be adjusted by applying one of the three methodologies between DIM+ and DIM-: $0 \sim 10 \text{VDC}$, or 10 V 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



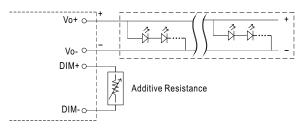
"DO NOT connect "DIM- to Vo-"

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



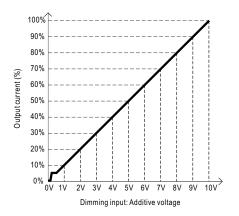
"DO NOT connect "DIM- to Vo-"

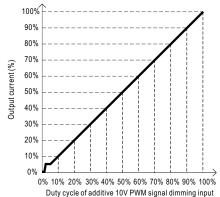
O Applying additive resistance:

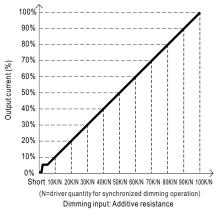


"DO NOT connect "DIM- to Vo-"



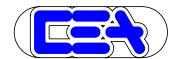






Note: 1. Min. dimming level is about 8% and the output current is not defined when 0% < Iout < 8%.

2. The output current could drop down to 0% when dimming input is about $0k\Omega$ or 0Vdc, or 10V PWM signal with 0% duty cycle.





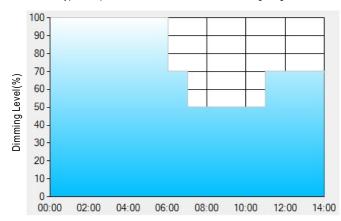
DALI Interface (primary side; for DA-Type)

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

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: OD01-Type: the profile recommended for residential lighting



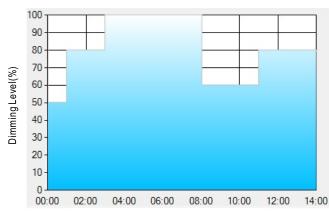
Set up for D01-Type in Smart timer dimming software program:

	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



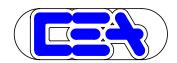
Set up for D02-Type in Smart timer dimming software program:

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

Operating Time(HH:MM)

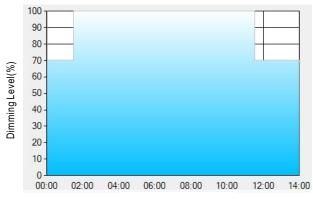
- **: TIME matches Operating Time in the diagram whereas LEVEL matches Dimming Level.
- Example: If a street lighting application adopts D02-Type, when turning on the power supply at 5:00pm, for instance:
- [1] The power supply will switch to the constant current level at 50% starting from 5:00pm.
- [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.

Operating Time(HH:MM)

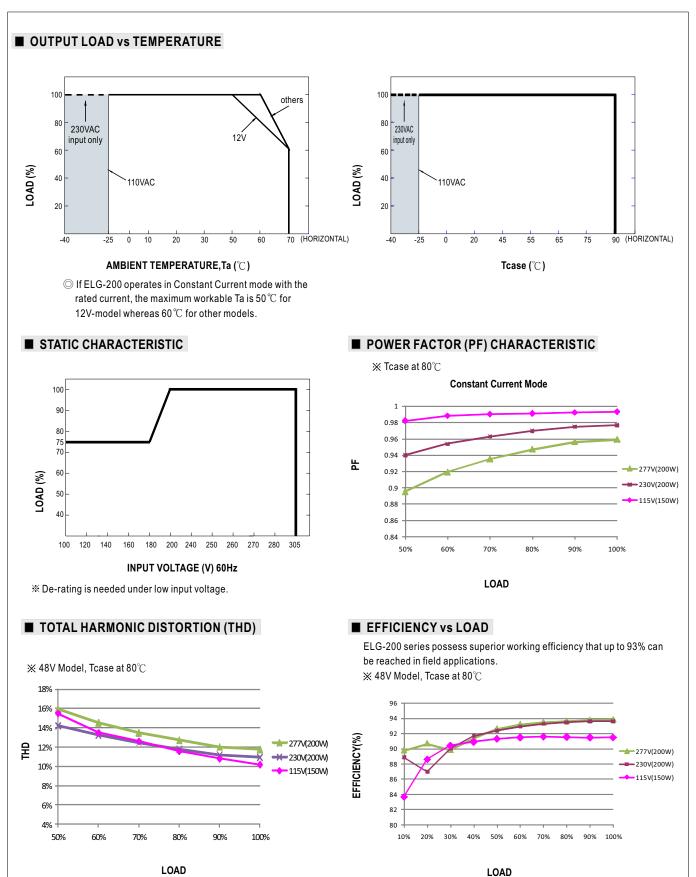
Example: If a tunnel lighting application adopts D03-Type, when turning on the power supply at 4:30pm, for instance:

- [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.

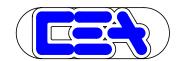
The constant current level remains till 6:30am, which is 14:00 after the power supply turns on.





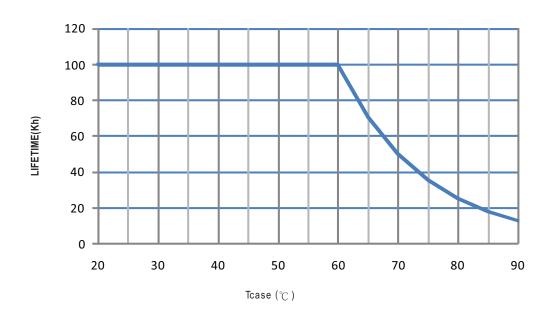








■ LIFE TIME

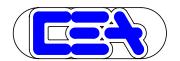




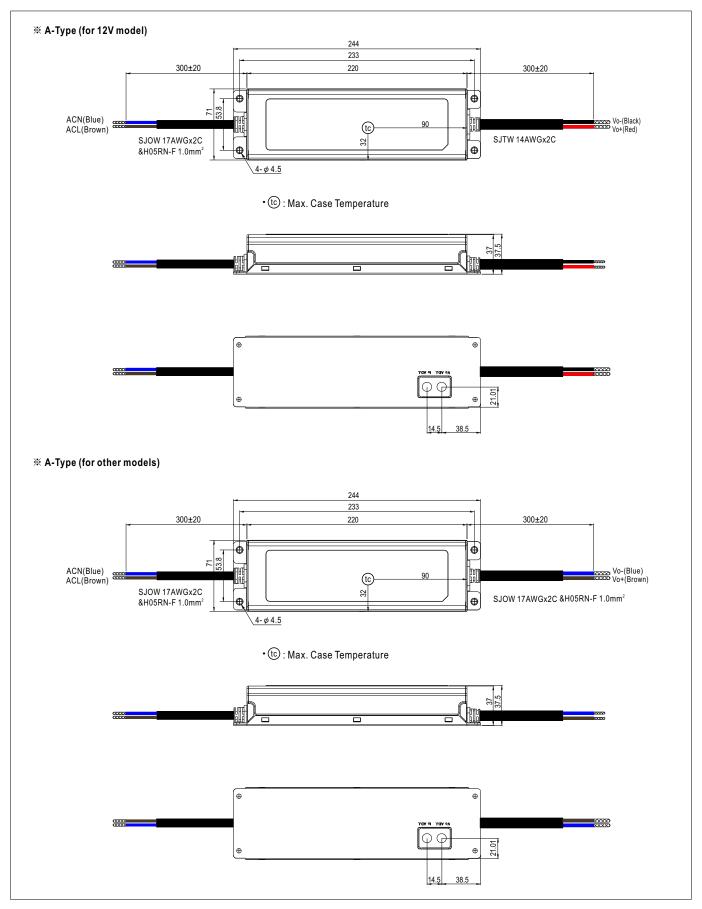


■ MECHANICAL SPECIFICATION CASE NO.: 262A Unit:mm ※ Blank-Type (for 12V model) 233 220 300±20 • • ACN(Blue) ACL(Brown) (tc) SJOW 17AWGx2C SJTW 14AWGx2C 32 &H05RN-F 1.0mm² • (tc) : Max. Case Temperature **X** Blank-Type (for other models) 244 233 300±20 220 300±20 • ACN(Blue) Vo-(Blue) Vo+(Brown) ACL(Brown) (tc SJOW 17AWGx2C 32 SJOW 17AWGx2C &H05RN-F 1.0mm² &H05RN-F 1.0mm² **(** 4- \phi 4.5 • (tc) : Max. Case Temperature















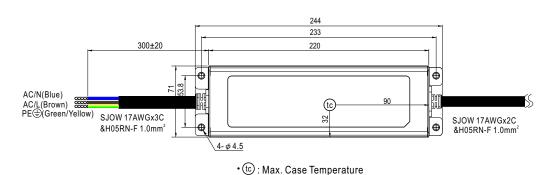
※ B/DA/D2-Type (for 12V model) 233 300±20 220 300±20 • • SJTW 14AWGx2C Vo-(Black) Vo+(Red) ACN(Blue) (tc DIM+(Gray)* DIM-(Black)** SJOW 17AWGx2C 32 SJOW 17AWGx2C &H05RN-F 1.0mm &H05RN-F 1.0mm² **(** * DIM+ for B-Type DA+ for DA-Type PROG+ for D2-Type $4 - \phi 4.5$ • tc : Max. Case Temperature *DIM- for B-Type DA- for DA-Type PROG- for D2-Type ※ B/DA/D2-Type (for other models) 244 233 300±20 220 300±20 • 6 SJOW 17AWGx2C &H05RN-F 1.0mm 71 Vo-(Blue) Vo+(Brown) ACN(Blue) ACL(Brown) (tc BIM+(Gray)* DIM-(Black)** SJOW 17AWGx2C SJOW 17AWGx2C &H05RN-F 1.0mm² 32 &H05RN-F 1.0mm² **(1)** * DIM+ for B-Type DA+ for DA-Type PROG+ for D2-Type 4- \phi 4.5 • tc : Max. Case Temperature **DIM- for B-Type DA- for DA-Type PROG- for D2-Type







※ 3Y Model (3-wire input)



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

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

■ INSTALLATION MANUAL

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

