

Power Supply Features

- IP67/IP65 design for indoor or outdoor installations
- Universal AC input 100~305VAC
- Built-in active PFC function
- High efficiency up to 91%
- No load / Standby power consumption <0.5W
- Fan-less design, cooling by free air convection
- -40°C ~ +70°C ambient operating range
- Withstands 5G vibration test
- Meets 6kV surge immunity level (IEC61000-4-5)
- Built-in constant current limiting circuit
- Metal case, filled with heat-conductive glue
- Protection: Short circuit / Over current / Over voltage / Over temperature
- Models available (see data sheet):
 - A-Type:** IP65 rated. Voltage and current limits can be adjusted by internal potentiometers
 - B-Type:** IP67 rated and built-in 3 in 1 dimming function (1~10VDC, PWM signal or resistance)
 - DA-Type:** IP67 rated. Dali control technology
 - Blank-Type:** IP67 rated. Cable for I/O connection
- Suitable for LED lighting applications at high/low temperatures, high dust, high moisture, high vibration, esp. outdoor environments (inside an enclosure).
- 5 year warranty

General Specifications (Please refer to www.procontechology.com.au for detailed specs)



Model No.	ELG-75	ELG-100	ELG-150
AC input voltage range	100~305VAC; 142~431VDC		
AC inrush current (max)	Cold start, 50A at 230VAC	Cold start, 60A at 230VAC	Cold start, 65A at 230VAC
DC adjustment range	±10% rated output voltage adjustable by potentiometer (A, AB-Type only)		
Current adjustment range	50~100% rated output current adjustable by potentiometer (A, AB-Type only)		
Over current protection	95~108% constant current limiting, auto-recovery		
Over voltage protection	110~140% rated output voltage		
Setup, rise, hold-up time	500ms, 100ms, 10ms at full load and 230VAC		
Withstand voltage	I/P-O/P: 3.75kVAC, I/P-FG: 2kVAC, O/P-FG: 1.5kVAC		
Working temperature	Tcase = -40°C ~ +85°C	Tcase = -40°C ~ +90°C (refer to "OUTPUT LOAD vs TEMPERATURE")	
Safety standards	UL8750, CSA C22.2 No. 250.13-12; EN/KC/AS/NZS61347-1, EN/KC/AS/NZS61347-2-13, EAC TP TC 004 approved + others IP65 or IP67, BIS IS15885 (refer to data sheet) approved		
EMC standards	EN55015, EN61000-3-2 class C, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11, EN62384, EAC TP TC 020 approved + others		
Connection	Input	UL rated, SJTW 18AWGx3C - supplied fitted with Australian mains plug and 1.8m lead	
	Output	Refer to data sheet	
Size (LxWxH), Weight	180x63x35.5mm, 0.8Kg	199x63x35.5mm, 0.85Kg	219x63x35.5mm, 0.95Kg

ELG-75 Series 75 Watt

Model No.	Output	Tol.	R&N	Eff.
ELG-75-12(A)	12V, 0~5A*	±3.0%	150mV	85.0%
ELG-75-24(A)	24V, 0~3.15A*	±3.0%	200mV	88.0%
ELG-75-36(A)	36V, 0~2.1A*	±2.5%	250mV	89.0%
ELG-75-42(A)	42V, 0~1.8A*	±2.5%	250mV	90.0%
ELG-75-48(A)	48V, 0~1.6A*	±2.0%	250mV	90.0%

○ = blank, A, B, AB or DA (AB = adjustable and dimming capability)
* derate the output by 20% at input voltages less than 190VAC

ELG-150 Series 150 Watt

Model No.	Output	Tol.	R&N	Eff.
ELG-150-12(A)	12V, 0~10.0A*	±3.0%	150mV	88.0%
ELG-150-24(A)	24V, 0~6.25A*	±3.0%	200mV	89.0%
ELG-150-36(A)	36V, 0~4.17A*	±2.5%	250mV	90.0%
ELG-150-42(A)	42V, 0~3.57A*	±2.5%	250mV	90.0%
ELG-150-48(A)	48V, 0~3.13A*	±2.0%	250mV	90.0%
ELG-150-54(A)	54V, 0~2.80A*	±2.0%	350mV	91.0%

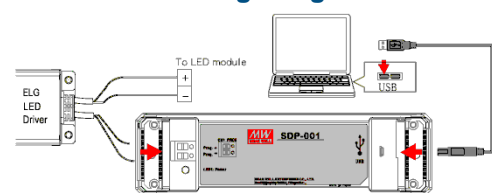
○ = blank, A, B, AB, DA or BE (B type with 15V 0.3A aux. output)

ELG-100 Series 100 Watt

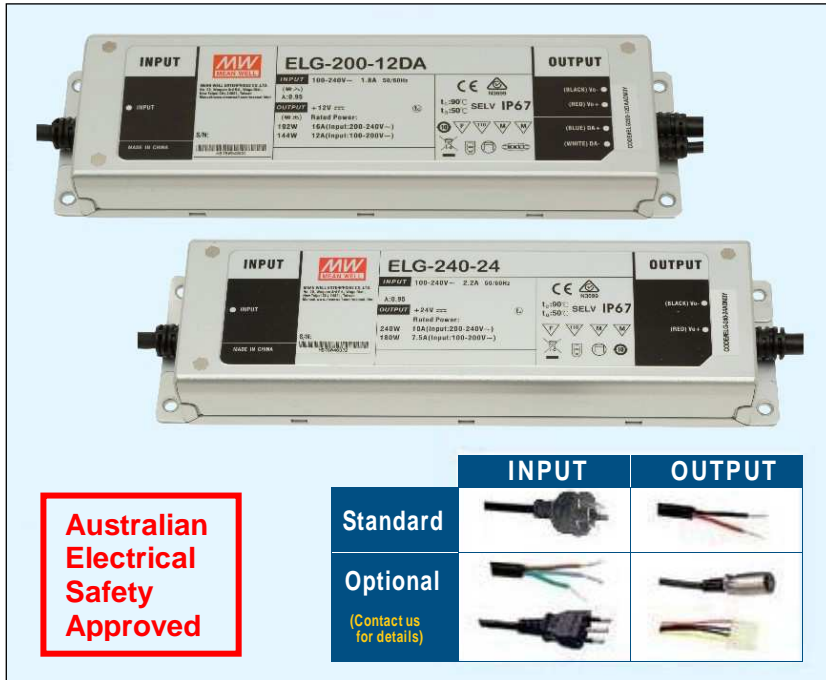
Model No.	Output	Tol.	R&N	Eff.
ELG-100-24(A)	24V, 0~4.0A*	±3.0%	200mV	88.0%
ELG-100-36(A)	36V, 0~3.15A*	±2.5%	250mV	89.0%
ELG-100-42(A)	42V, 0~2.1A*	±2.5%	250mV	90.0%
ELG-100-48(A)	48V, 0~1.8A*	±2.0%	300mV	90.0%
ELG-100-54(A)	54V, 0~1.6A*	±2.0%	350mV	91.0%

○ = blank, A, B, AB or DA
* derate the output by 30% at input voltages less than 190VAC. Specify the ELG-100U or ELG-150U for 100% output down to 100VAC.

Smart Timer Dimming Programmer



The D2 option provides user programmable dimming over time in 4 stages. This allows reduced energy/ carbon footprint and longer LED life for street lighting. Contact us for details.



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Power Supply Features

- IP67/IP65 design for indoor or outdoor installations
- Universal AC input 100~305VAC
- Built-in active PFC function
- High efficiency up to 93%
- No load / Standby power consumption <0.5W
- Fan-less design, cooling by free air convection
- -40°C ~ +70°C ambient operating range
- Withstands 5G vibration test
- Meets 6kV surge immunity level (IEC61000-4-5)
- Built-in constant current limiting circuit
- Metal case, filled with heat-conductive glue
- Protection: Short circuit / Over current / Over voltage / Over temperature
- **Models available (see data sheet):**
 - A-Type:** IP65 rated. Voltage and current limits can be adjusted by internal potentiometers
 - B-Type:** IP67 rated and built-in 3 in 1 dimming function (1~10VDC, PWM signal or resistance)
 - DA-Type:** IP67 rated. Dali control technology
 - Blank-Type:** IP67 rated. Cable for I/O connection
- Suitable for LED lighting applications at high/low temperatures, high dust, high moisture, high vibration, esp. outdoor environments (inside an enclosure).
- 5 year warranty

General Specifications (Please refer to www.procontechology.com.au for detailed specs)



Model No.	ELG-200	ELG-240
AC input voltage range	100~305VAC; 142~431VDC	
AC inrush current (max)	Cold start, 75A at 230VAC	
DC adjustment range	±10% rated output voltage adjustable by potentiometer (A, AB-Type only)	
Current adjustment range	50~100% rated output current adjustable by potentiometer (A, AB-Type only)	
Over current protection	95~108% constant current limiting, auto-recovery	
Over voltage protection	110~140% rated output voltage	
Setup, rise, hold-up time	500ms, 100ms, 10ms at full load and 230VAC	
Withstand voltage	I/P-O/P: 3.75kVAC, I/P-FG: 2kVAC, O/P-FG: 1.5kVAC	
Working temperature	Tcase = -40°C ~ +90°C (refer to "OUTPUT LOAD vs TEMPERATURE")	
Safety standards	UL8750, CSA C22.2 No. 250.13-12; EN/KC/AS/NZS61347-1, EN/KC/AS/NZS61347-2-13, EAC TP TC 004 approved + others IP65 or IP67, BIS IS15885 (refer to data sheet) approved	
EMC standards	EN55015, EN61000-3-2 class C, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11, EN61547, EAC TP TC 020 approved + others	
Connection	Input	UL rated, SJTW 18 AWGx3C - supplied fitted with Australian mains plug and 1.8m lead
	Output	Refer to data sheet
Size (LxWxH), Weight	244x71x37.5mm, 1.22Kg	

ELG-200 Series		200W		
Model No.	Output	Tol.	R&N	Eff.
ELG-200-12(A)	12V, 0~16.0A*	±3.0%	150mV	90.0%
ELG-200-24(A)	24V, 0~8.4A*	±2.0%	200mV	92.0%
ELG-200-36(A)	36V, 0~5.55A*	±2.0%	250mV	92.0%
ELG-200-42(A)	42V, 0~4.76A*	±2.0%	250mV	92.5%
ELG-200-48(A)	48V, 0~4.16A*	±2.0%	250mV	93.0%
ELG-200-54(A)	54V, 0~3.72A*	±2.0%	350mV	93.0%

ELG-240 Series		240W		
Model No.	Output	Tol.	R&N	Eff.
ELG-240-24(A)	24V, 0~10.0A*	±2.0%	200mV	92.0%
ELG-240-36(A)	36V, 0~6.66A*	±2.0%	250mV	92.0%
ELG-240-42(A)	42V, 0~5.71A*	±2.0%	250mV	92.5%
ELG-240-48(A)	48V, 0~5.00A*	±2.0%	250mV	93.0%
ELG-240-54(A)	54V, 0~4.45A*	±2.0%	350mV	93.0%

○ = blank, A, B, AB or DA (AB = adjustable and dimming capability)

○ = blank, A, B, AB or DA

* derate the output by 25% at input voltages less than 190VAC

Features of the ELG Series Family

Built-in active PFC function and current limited output, the full range of ELG family features high IP level (IP65 or IP67), 5G anti-vibration, high efficiency (85~93%) and 6kV anti-surge capability. Along with a 5 year warranty and a fan-less design, the whole family can be cooled by free air convection from -40°C to +70°C ambient temperature, so that they can be installed in all kinds of harsh environments - both indoors and outdoors with high dust, high moisture, high vibration, high ambient temperatures or extremely low temperatures, or in any machine equipment that requires low noise. In addition to the indoor/outdoor LED lighting applications, the ELG family is also a good solution in harsh environments such as industrial applications (low voltage conveyor systems), electronic message boards or displays, electric vehicle charging and outdoor electrical equipment etc. e.g. stadium and street lighting! A smart timer dimming function (option D2) is also available with user programmable dimming over time. This allows the ELG to be turned on early evening in a dimmed state, rise to full intensity and then dim again late at night in order to save energy and lengthen the life of the LED lamp. On special order, is the ELG-150 BE option providing 3 in 1 dimming and 15V 0.4A aux. voltage.