



Constant Current 25 Watt LED Driver

GRE Alpha's ELC 25 is a 25W Constant Current LED Driver. This compact and efficient LED Driver features dip-switch selectable output currents making it the most versatile and flexible LED driver suitable for a wide variety applications, whilst ensuring, consistent, high quality performance of your luminaire at all times.

ELC 25

Constant Current 25 Watt LED Driver



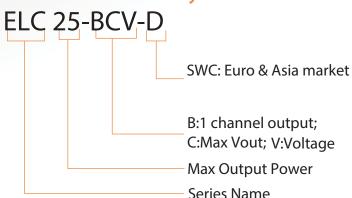








Model Selection Key



Features

- 220 ~ 240Vac input
- Up to 88% Efficiency
- Selectable current output
- . PF>0.9 at full load
- Built-in protection: SCP,OVP,OCP
- . CB, CE, SAA
- For luminaires of protection Class and Class
- 3 years Warranty

			CC Output					
Model Number	Input Voltage Range (Vac)	C hannel(s) Output	Preset Max . lout (Per Channel) (A)	Current selectable values(A)		oliance tage oc)	Max.Output Power (W)	Rated Output Power(W)
					min	max		
ELC25-125V-SWC	220-240	1	1.05	1.05/0.7/0.5/0.35	12.5	25	26	26
ELC25-136V-SWC	220-240	1	0.7	0.7/0.5/0.4/0.35	18	36	25	25



Input Specification					
Voltage Range	220 ~240VAC	Vmax Inrush Current	Cold start-up:<20Amp peak@25°C		
Frequency Range	47-63 Hz	Max. No. of Units on circuit breaker 10A Type B	20		
Power Factor	0.9 min at Full load	Max. No. of Units on circuit breaker 16A Type B	30		
THD	<20% @Full load				

Output Specification					
Max Power	25 W	Noise/Ripple	7% of Rated Output Volts;+/-30% of Output Current (Note: All noise measurements made at the output terminals, connected to a 20Mhz low pass filter)		
Efficiency	88%*	Short Circuit Protection	Hiccup-Mode, Auto-Recovery upon removal of short circuit		
		Short Circuit Protection	condition		
Output Current Regulation	+/- 5% Max	Over Voltage Protection	CV Condition		
Start-up Time	1 sec. Typical	Over-current Protection (OCP)	CC Condition		
Hold-up Time	0.5mS @ full load,				

^{*:} at 230V Vac input, full load

Environmental Specifications					
MTBF	Cooling	Operating Temp	Storage Temp	Relative Humidity	
50, 000 hours (Full Load @ 25C ambient, Based on MIL-217F)	Convection	-25°C-50°C (Full load)	-40°C- 85°C	5% - 95 %	

Compliance / Safety				
EMI/RFI	ISPR-22 Class B,IEC61547,IEC61000-3-2 IEC 61000-3-3,EN55015,EN61000-3-2, EN 61000-3-3,EN 61547			
Safety Agencies	CB, CE (IEC61347-1, IEC61347-2-13)			
Weatherability	IP20			

Mechanical		
Case Design	Materials / Polycarbonate white	
Maximum torque (fixing)	0.4Nm/M2	
Terminal block screw torque	0.3Nm/M2.6	

Expected Life-time*				
Та	40°C	50°C		
Тс	65°C	85°C		
Life-time	50,000h	30,000h		
*: @ Full load, based on a failure rate of < 10%				

. @ r an road, based on a randre rate of < 1070

Connectors	
AC Input	Neutral (N), Live (L)
DC Output	V+, V-

Pin Assianment

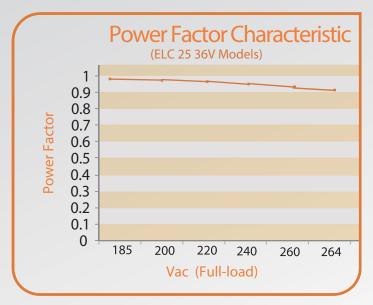
ГПГ	assigi	IIIICI	IC		
Setting	1 2 1 ON 1	1, 2, 1 ON 1	1,2,1 ON 1	ONI	1
Output Current	1050 mA	700 mA	500 mA	350 mA	
Setting	ON I	ON	ON	ONI	I
Output	700 mA	500 mA	400 mA	350 mA	

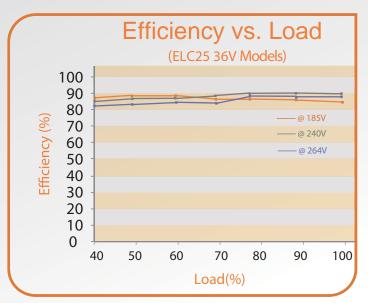
ELC25-125V-SWC

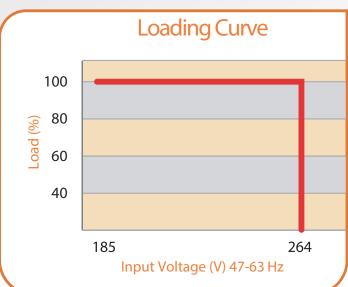
ELC25-136V-SWC

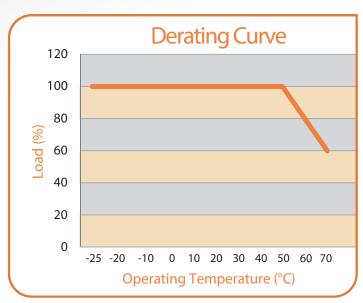


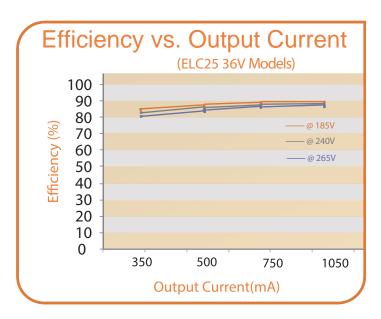
Performance Curves





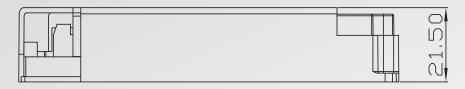


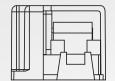






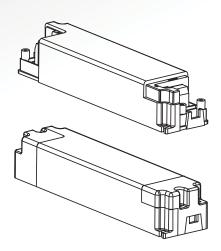
Mechanical Diagrams





Packing Information Weight: 0.121 kg/pcs, 13.5 kg/carton 100 pcs/carton; L480xW317xH183 (mm)





Wiring Diagram





Wiring Instructions

- 1) Installation of the ELC series power unit requires the proper wiring connection of both the AC terminal block to the AC facility power, and the DC terminal block to the LED lighting system. (Note: All electrical wiring should comply with local and national electrical codes. Installation should be performed by qualified electrical service personnel.)
- 2) To access both the AC and DC terminal blocks, remove the side covers by removing the 2 screws on each side using a Philips screwdriver.
- 3) Connect the AC source wires to the ELC power unit's AC input terminal blocks using a slot type screwdriver. Refer to the rating label affixed on the ELC power unit for AC wire connection. The "L" terminal block from the ELC unit should connect to the incoming AC Line wire. The "N" terminal block from the ELC unit should connect to the incoming AC Neutral wire.
- 4) Connect the ELC unit DC output to the LED lighting system by connecting the LED lighting system input wires to the ELC unit's DC output V+ and V- terminal blocks using a slot type screwdriver. Refer to the rating label affixed on the ELC power unit for DC wire connection. The V- terminal block from the ELC unit should connect to the lighting system's DC negative input, '-'. The V+ terminal block from the ELC unit should connect to the lighting system's DC positive input, '+'.
- 5 Once all wiring is completed, turn on the AC supply to check for proper LED lighting system operation. Once proper operation is confirmed, turn off the AC supply and then re-install the side covers of the ELC power unit, using the 4 screws and Philips screwdriver.

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