

LED products need accurate and consistent electrical operating levels for optimum light output and lifetime over all anticipated environmental conditions. Crescent have a range of transformers and drivers to suit all expected conditions.

High Power LEDs

- High power LEDs, such as Luxeon and CREE are operated with constant dc current, and are always connected in series. There are a minimum and maximum number of LEDs allowable in a series chain, depending upon the driver selected.
- Multiple LED products are internally connected in series, ready to connect directly to a suitable driver. Multiple LED products can themselves be connected in series, taking account of the total number of LEDs in the series chain.
- Power LEDs run at two current levels i.e. 350mA and 700mA depending upon required performance and environmental operating conditions.
- LEDs can be dimmed. Dimming drivers use one of three techniques i.e. Potentiometer, 0-10Vdc analogue signal or DMX digital control.
- Weatherproof (IP rated) drivers are available for exterior or wet locations.

Crescent Modules (Low power LEDs)

- Non dimmable.
- Lower power LED products are connected in parallel.
- They use a constant voltage supply of 24Vac (or dc).
- To establish suitable supply (transformer), simply add the individual VA ratings of the products in a circuit, and choose the next highest transformer VA rating.

Constant Current Drivers for LEDs

	Part No	Input Voltage	No of LEDs (Min/Max)	Dimensions (LxWxH mm)	Dim Type	IP Rating
350mA Standard	CRE2843	100-240 Vac	1 to 7	100 x 40 x 28		
	CRE2777	95-240 Vac	1 to 8	115 x 35 x 20		
	CRE2802/12	220-240 Vac	1 to 12	123 x 38 x 21		
350mA Dimmable	CRE2802/9	100-240 Vac	4 to 8	110 x 55 x 25	Potentiometer 0-10Vdc	
	CRE2802/16	95-240 Vac	2 x (4 to 8)	110 x 55 x 25		
350mA DMX	CRE2801	95-265 Vac	3 x (4 to 12)	315 x 63 x 45	DMX512	
	CRE2801/4	95-265 Vac	4 x (4 to 12)	315 x 63 x 45		
	CRE2835	95-240 Vac	3 x (4 to 12)	210 x 95 x 60		
350mA IP Rated	CRE2840*	100-240 Vac	1 only	32 x 34 x 25		IP67
	CRE2778*	220-240 Vac	1 to 3	20 x 55 dia		IP67
	CRE2841*	100-240 Vac	1 to 3	45 x 45 x 25		IP67
	CRE2842*	100-240 Vac	1 to 4	45 x 45 x 25		IP67
	CRE2844*	100-240 Vac	1 to 7	86 x 35 x 27		IP67
350mA IP Rated DMX	CRE2801/IP	195-265 Vac	3 x (4 to 12)	565 x 120 x 60	DMX512	IP65
700mA Standard	CRE2851	100-240 Vac	1 to 3	100 x 40 x 28		
	CRE2784	220-240 Vac	1 to 5	123 x 38 x 21		
700mA IP Rated	CRE2850*	100-240 Vac	1 to 2	45 x 45 x 25		IP67
	CRE2852*	100-240 Vac	1 to 3	81 x 40 x 23		IP67
	CRE2853*	100-240 Vac	4 to 12	133 x 40 x 31		IP67
500mA-1000mA Variable Output	CRE2836	100-240 Vac	3 x (4 to 12)	204 x 154 x 70	DMX512	

IP65 enclosure CRE2880 will accommodate up to 4 x CRE2802/12 - other combinations are possible, contact the Project Design Dept. Dimensions 440 x 103 x 33mm.

* IP rated driver with flying leads - requires weatherproof termination. All other drivers have screwed terminal connections.

Transformers for LEDs

	Part No	Input Voltage	VA Rating	Dimensions	IP Rating
24 Vac Standard	CRE2292	220-240 Vac	15	120 x 120 x 65	IP65
	TSO20	220/240 Vac	20	64 dia x 90	
	TSO50	220/240 Vac	50	64 dia x 90	