

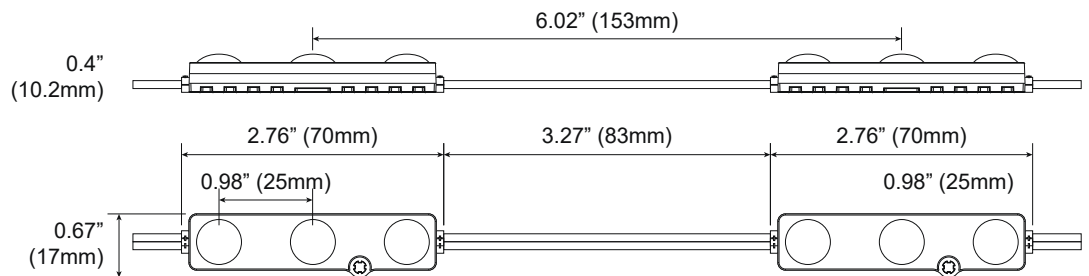
Characteristic

Single-Bin SMD2835	IP68
DC12V	UL US E517435
High Efficacy 1.1 watt	CE
50,000H LIFETIME	RoHS
Wide Angle 160°	3M



- **High Luminous Efficacy LED Module Solution for Signage and Cabinets**
- Electrical and material safety certified (UL, CE and RoHS Certificates)
- Industry-leading, single-bin SMD2835 LED chips
- Ultra Sonic Welding Technology provides extreme weather protection (IP68)
- Secure and easy fastening with genuine double coated tissue 3M adhesive
- Guaranteed lifetime of more than 50,000 hours (L70)
- High strength polycarbonate lens + ABS plastic body for harsh environments
- Fully integrated 160° optical lens for wide and evenly distributed light

Physical



Optical Characteristic

Color	Current Dissipation (mA)	Power Consumption (Watt)	Luminous Flux (lm)	Luminous Efficiency (lm/W)	CCT (Kelvin)	Viewing Angle
Cool White	91.7	1.1	110	100	10,000K	160 (2Θ½)

Electrical Characteristics

Current dissipation: 91.7mA
 Power consumption: 1.1W
 Operating power: DC 12V
 Maximum quantity for serial connection: 50 modules
 Supports 12V dimming

Thermal

Heat dissipation: Ambient air
 Operating ambient temperature: -4°F to 140°F
 Storage ambient temperature: -4°F to 140°F

Waterproof Rating

IP68: Complete protection against dust ingress and water

Construction

LED type: SMD 2835
 Body, Lens, PCB: ABS, PC and FR-4
 Cable: UL, AWM2468 18AWG
 Pre-mounted 3M adhesive tape and screwing hole for mechanic fastening

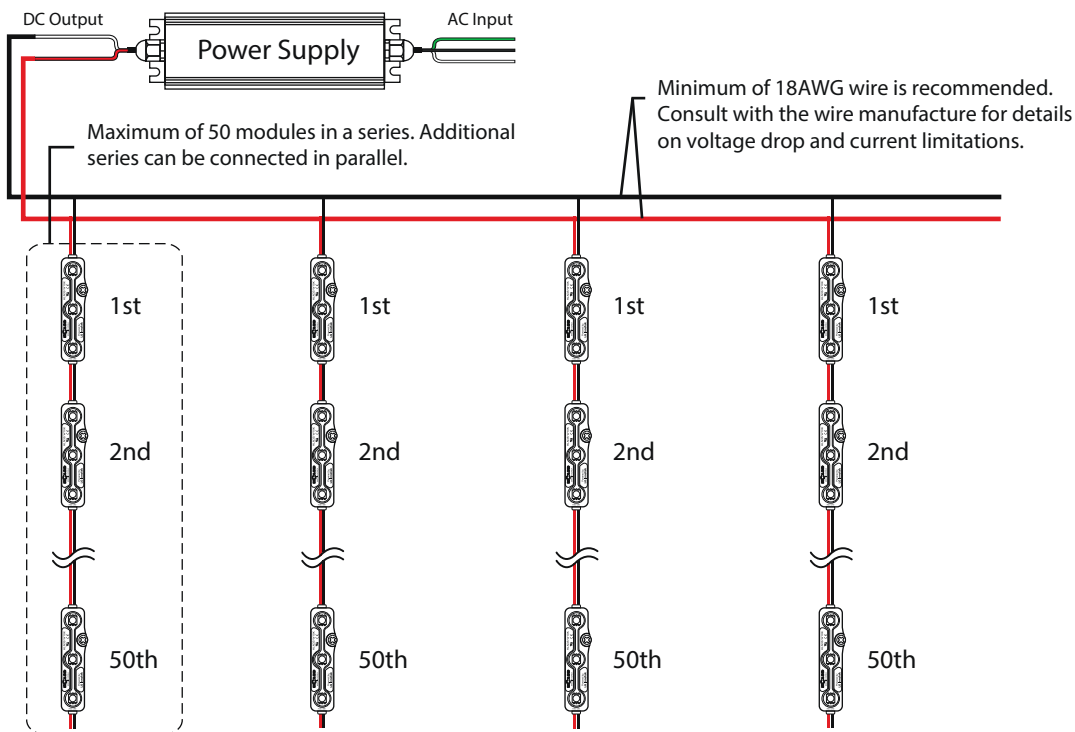
Approval

EN 55015/A2: 2009
 UL879 -U.S Standard for Electric Sign Components
 C22.2 No. 207-M89-Canadian Standard for Portable and Stationary Electric Signs & Displays
 RoHS Directive 2011/65/EU

Packaging

Anti-static vinyl bag: 100 modules (50 feet)
 Master carton box: 1200 modules (12 vinyl bags, 600 feet)

Wiring Guide



Power Supply Load Table**

Power Consumption	Safety Factor	Power Supply* (watt) / Qty (pcs)							
		30w	60w	75w	100w	120w	150w	200w	320w
1.1Watt	80%	22	44	54	72	87	109	145	232
	90%	24	49	61	81	98	122	163	261

*Check power supply specification/data sheet for the temperature and line derating curve.
 **This table is generated with a Safety Factor (SF) of 1.2 and 1.1 (80% and 90% load).