

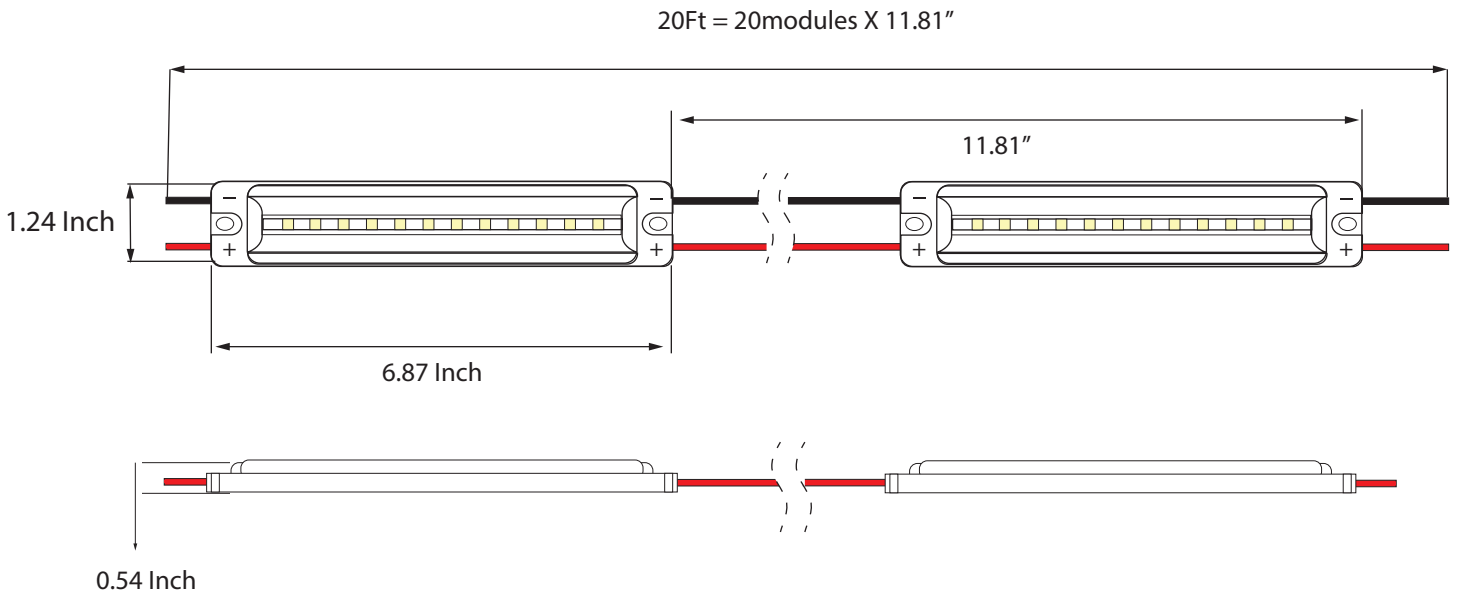
Characteristic

|                      |               |
|----------------------|---------------|
| High Efficiency      | IP68          |
| Single-Bin SMD3014   | UL US E481425 |
| DC24V                | CE            |
| 50,000H LIFETIME     | RoHS          |
| Beam Angle 15° x 85° | FC            |



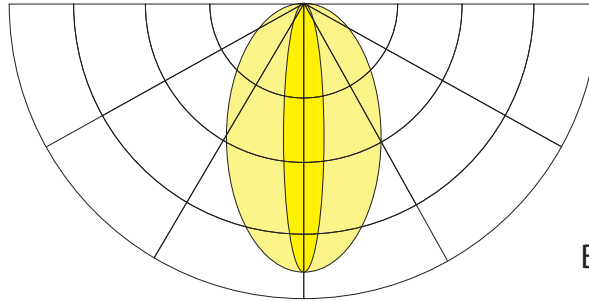
- **High Luminous Efficacy LED Module Solution for Cabinets (Best for 4.72" ~ 11.8" depth)**
- Electrical and material safety certified (UL, CE and RoHS Certificates)
- Industry-leading, single-bin SMD3014 LED chips
- Ultra Sonic Welding Technology provides extreme weather protection (IP68)
- Secure 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 15° x 85° 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) | Beam Angle      |
|------------|--------------------------|--------------------------|--------------------|----------------------------|--------------|-----------------|
| Cool White | 267                      | 6.4                      | 832                | 130                        | 6,500K       | 15° x 85° (2θ½) |



**Electrical  
Characteristics**

Current dissipation: 267mA  
 Power consumption: 6.4W  
 Operating power: DC 24V  
 Maximum quantity for serial connection: 20 modules  
**\*\*Connecting more than 20 modules in series will result in unstable brightness**  
 Supports 24V dimming

**Thermal**

Heat dissipation: Ambient air  
 Operating ambient temperature: -13°F to +131°F  
 Storage ambient temperature: -4°F to 185°F

**Waterproof  
Rating**

IP68: Complete protection against dust and moisture. Immersion up to 1 meter under - defined condition of pressure and time.

**Construction**

LED type: SMD 3014  
 Body, Lens, PCB: ABS, PC and FR-4  
 Cable: UL, AWM2468 18AWG  
 Pre-mounted 3M adhesive tape and screwing hole for mechanic fastening

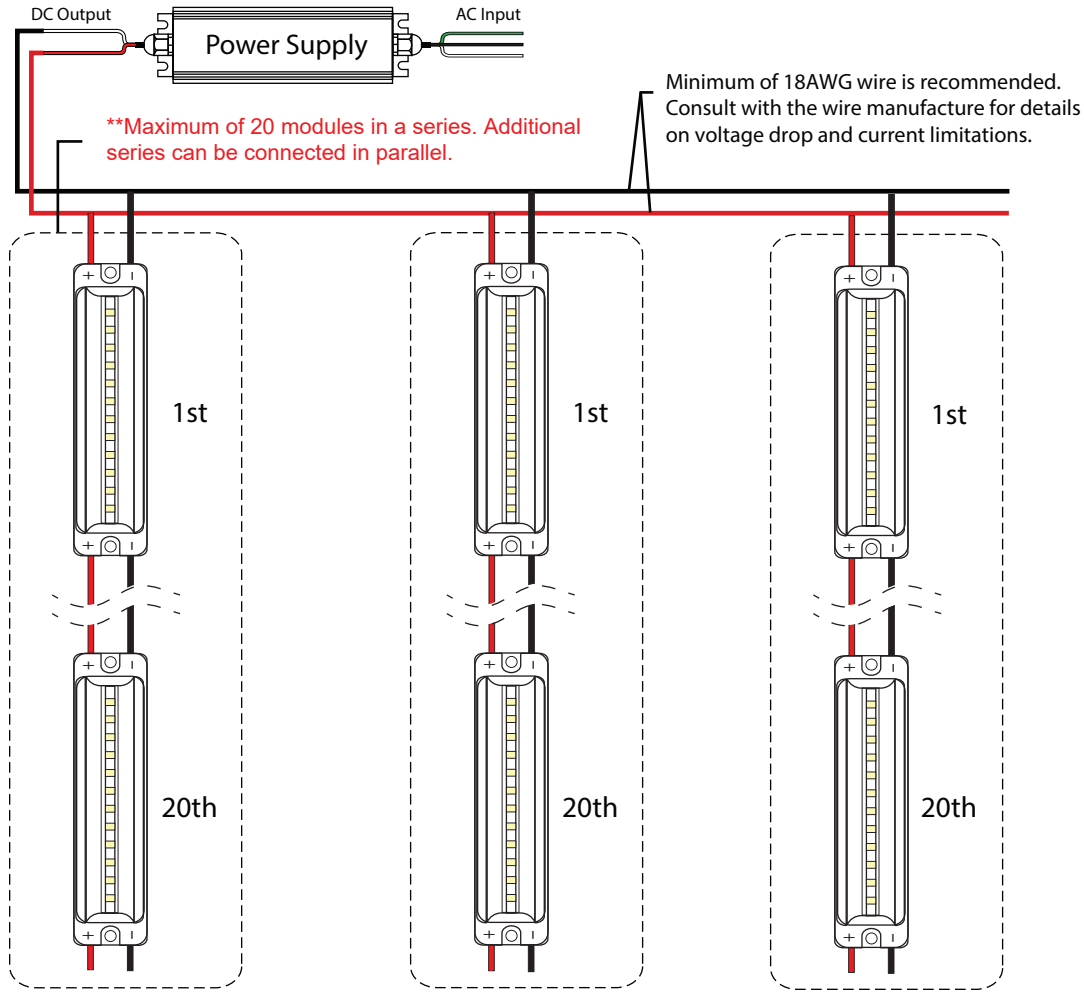
**Approval**

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

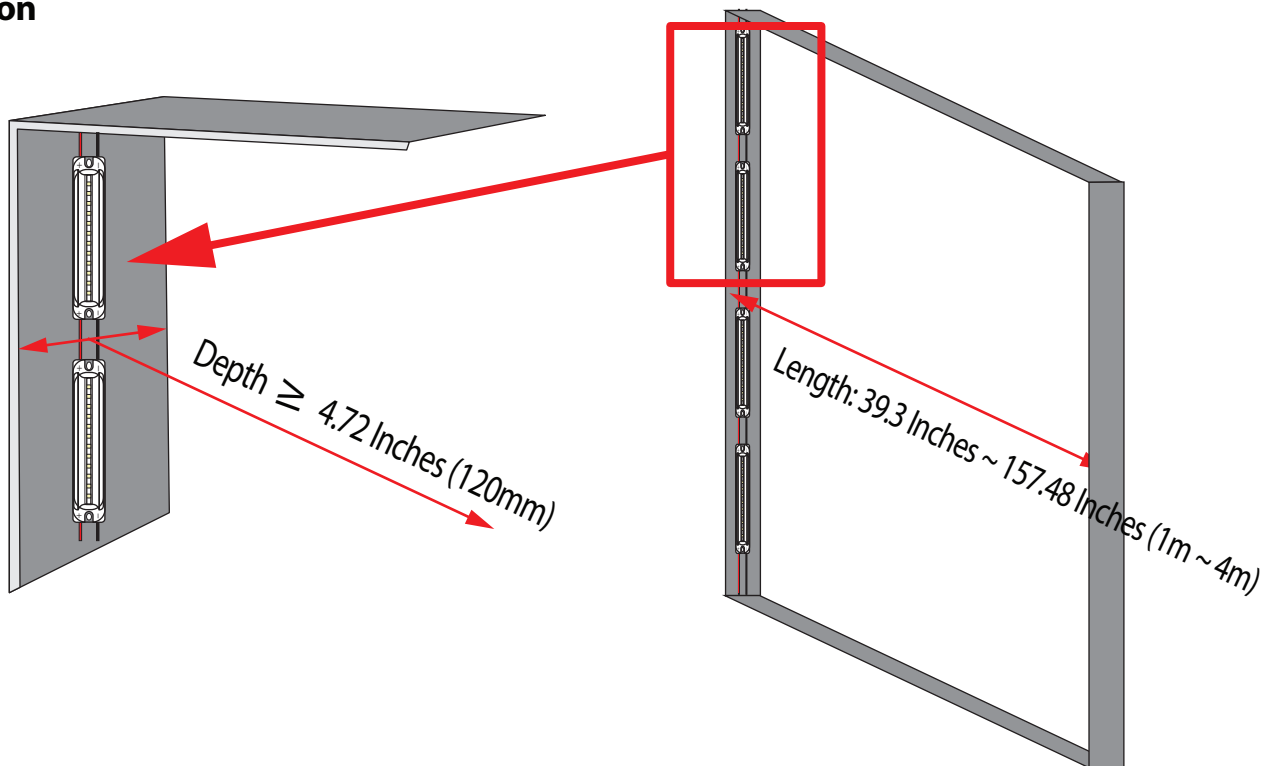
**Packaging**

Anti-static vinyl bag: 20 modules (20 feet)  
 Master carton box: 280 modules (14 vinyl bags, 280 feet)

Wiring Guide



Application



LED Side Module - 6.4 Watts Per Module

| Cabinet Size | Quantity/ Line | Total | Space LED to LED | Total Power |
|--------------|----------------|-------|------------------|-------------|
| 4x5          | 7x2            | 14    | 8.58             | 89.6        |
| 4x6          | 8x2            | 16    | 9.00             | 102.4       |
| 4x7          | 9x2            | 18    | 9.34             | 115.2       |
| 4x8          | 10x2           | 20    | 9.60             | 128         |
| 4x9          | 11x2           | 22    | 9.82             | 140.8       |
| 4x10         | 12x2           | 24    | 10.00            | 153.6       |

| Cabinet Size | Quantity/ Line | Total | Space LED to LED | Total Power |
|--------------|----------------|-------|------------------|-------------|
| 5x6          | 9x2            | 18    | 8.00             | 115.2       |
| 5x7          | 11x2           | 22    | 7.64             | 140.8       |
| 5x8          | 12x2           | 24    | 8.00             | 153.6       |
| 5x9          | 14x2           | 28    | 7.72             | 179.2       |
| 5x10         | 15x2           | 30    | 8.00             | 192         |
| 5x11         | 17x2           | 34    | 7.77             | 217.6       |
| 5x12         | 18x2           | 36    | 8.00             | 230.4       |

| Cabinet Size | Quantity/ Line | Total | Space LED to LED | Total Power |
|--------------|----------------|-------|------------------|-------------|
| 6x8          | 8x4            | 32    | 12.00            | 204.8       |
| 6x9          | 9x4            | 36    | 12.00            | 230.4       |
| 6x10         | 10x4           | 40    | 12.00            | 256         |
| 6x11         | 11x4           | 44    | 12.00            | 281.6       |
| 6x12         | 12x4           | 48    | 12.00            | 307.2       |
| 6x13         | 13x4           | 52    | 12.00            | 332.8       |
| 6x14         | 14x4           | 56    | 12.00            | 358.4       |

| Cabinet Size | Quantity/ Line | Total | Space LED to LED | Total Power |
|--------------|----------------|-------|------------------|-------------|
| 8x10         | 12x4           | 48    | 10.00            | 307.2       |
| 8x12         | 15x4           | 60    | 9.60             | 384         |
| 8x14         | 17x4           | 68    | 9.89             | 435         |
| 8x16         | 20x4           | 80    | 9.60             | 512         |
| 8x18         | 22x4           | 88    | 9.82             | 563.2       |

| Cabinet Size | Quantity/ Line | Total | Space LED to LED | Total Power |
|--------------|----------------|-------|------------------|-------------|
| 9x10         | 14x4           | 56    | 8.58             | 358.4       |
| 9x12         | 17x4           | 68    | 8.47             | 435.2       |
| 9x14         | 20x4           | 80    | 8.40             | 512         |
| 9x16         | 22x4           | 88    | 8.73             | 563.2       |
| 9x18         | 25x4           | 100   | 8.64             | 640         |

| Cabinet Size | Quantity/ Line | Total | Space LED to LED | Total Power |
|--------------|----------------|-------|------------------|-------------|
| 10x12        | 18x4           | 72    | 8.00             | 460.8       |
| 10x15        | 24x4           | 96    | 7.50             | 614.4       |
| 10x18        | 28x4           | 112   | 7.72             | 716.8       |
| 10x20        | 31x4           | 124   | 7.75             | 793.6       |
| 10x24        | 36x4           | 144   | 8.00             | 921.6       |

