



Features

- IP65 Rating
- Wide Viewing
- Daylight Visibility
- Premium PCBA
- Automated Quality Control
- 1/4 Drive Method
- 5 Years standard warranty (extendable up to 7 years)

The Orion P10 Outdoor Betelgeuse Series comes with an IP65 rating, ensuring resistance to dust and water. With a pixel density of 10,000 pixels per square meter, the display delivers sharp and vibrant visuals suitable for large-scale outdoor installations. The series integrates surface mount technology (SMT), where the application of solder paste is closely controlled and monitored by automated systems. High-grade PCBA materials are utilized, with every PCB undergoing thermal aging through a 24-hour heat treatment process prior to SMD LED mounting to ensure thermal stability and reliability. Additionally, the system features premium-quality, color-coded wiring for streamlined installation and maintenance, along with individual cabinet fuses to enhance operational safety.

Technical Specification

| S.NO. | Product Parameter | SMD P10 |
|-------|-----------------------------|-------------|
| 1 | Pixel Pitch in mm | 10 |
| 2 | Pixel Density in sqm | 10,000 |
| 3 | Module Size in mm | 320 x 160 |
| 4 | Cabinet Size in mm | 960X960 |
| 5 | Cabinet Weight in KG | 27 |
| 6 | Viewing Angle in H/V | Customised |
| 7 | Brightness in cd/sqm | 6500 |
| 8 | Color Depth | 16 Bit |
| 9 | Refresh Rate in Hz | ≥3840 |
| 10 | Voltage | 220v |
| 11 | Avg. Power Consumption (W) | 225 |
| 12 | Max Power Consumption (W) | 600 |
| 13 | Service Excess | Rear |
| 14 | IP Grade Front/Rear | 65/54 |
| 15 | Operating Temperature (-/+) | -10°C~+65°C |
| 16 | Operating Humidity | 0-99% |
| 17 | Life Time in hrs | 1,00,000 |
| 18 | MTBF in hrs | 10,000 |

| S.No | Component Parameter | SMD P10 |
|------|---------------------|-----------------------|
| 1 | LED Chip | Nation star Gold Bond |
| 2 | PCB | 4 Layer |
| 3 | Driver IC | MBI/ICN |
| 4 | Power Supply | Meanwell |
| 5 | Controller | Nova |
| 6 | Cabinet Material | Die Cast |

Specifications and product information are subject to change without prior notice due to ongoing innovation and development. For the most up-to-date details, please visit www.orion-led.com.



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