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SANSI
LED Display | LED Lighting | System Integration Solution

SANSI LED Grow Lights
Give life to the plants
add color to the life
Residential plants / Growth chambers / Greenhouses / Vertical farms
Since its founding in 1993, SANSI has been dedicated to technological innovation in a wide range of LED applications, from commercial displays to residential lighting. With over 400 in-house engineers, 2,000 employees and 3 advanced factories, SANSI has reached over 40 countries on 5 continents. SANSI utilizes 230,000 square meters of space for manufacturing, sales and customer service to support their commercial and residential projects. Having successfully launched over 10,000 cutting-edge projects including New York Times Square, Hong Kong Zhuhai-Macau Bridge, the Chinese Space Program, Xichang Satellite Launch Center, Shanghai World Expo and the Hangzhou G20 Summit. SANSI upholds its core values of innovation, sustainability and commitment. These have allowed SANSI to maintain the path as an industry leader.

400+ R&D Engineers

One of SANSI’s greatest strengths is our excellent research and development. As of 2019, SANSI has accumulated the R&D strength and technical force of over 400 engineers. SANSI owns two System Integration Labs and 14 research institutes.

Awards

- ‘The 11th five-year plan’ Undertaking unit of 863 LED lighting key research project
- ‘The 12th Five-Year Plan’ Undertaking unit of science and technology support program LED lighting project
- ‘The 13th Five Year Plan’ Leading unit of national key research and development plan project
- Shanghai Brand
- Winning bid in LED Project by NDRC (National Development and Reform Commission), Ministry of Construction, Ministry of Communications
- Subsidy allowance by National Finance Dept
- Subsidy allowance in lighting by United States Department of Energy
- National LED Display Industry Quality Leading Brand
- National LED Industry Quality Leader
- China’s Smart City Leader
SANSI LED Grow Lights. Ideal for your plants.

Results-oriented LED grow lights can be ideal for your plant growing.
High quality PC material, fireproof, anti-corrosion and anti-leakage.
High performance, low energy consumption and low operating costs.
Chip on ceramic technology without fans keeps lights longer lifespan.
Hollow structure design with fast heat dissipation.
Spectral customization can meet the different needs and stages of plant growth.

SANSI XQV2 Ceramic Pixel Platform

High temperature directly affects the luminous efficacy and light decay of LED chips. SANSI ceramic heat dissipation system provides better performance and prolongs the lifespan.

Patented Ceramic LED Technology

Patented LED Technology, No PCB, Energy Efficient

Ceramic dissipates heat more efficiently than aluminum. SANSI LED chips are mounted directly onto the ceramic body of the module, making each module PCB board and thermal adhesive free.

- The SANSI patented ceramic heat dissipation technology (CHDT) ensures fast heat dissipation and long-lasting performance. The LED chip(s) for SANSI’s LED grow lights are both PCB and thermal adhesive free.
- By comparing with the aluminum material, the ceramic is more corrosion resistant for better protection against moisture and air pollution. SANSI’s Independent Pixel Heat Sink Technology provides both even and fast heat dissipation for each LED light pixel.
- SANSI develops LED street light, tunnel light, security light, flood light and high bay light based on the XQV2 ceramic pixel platform. It creates value and improves productivity.

Other manufacturer

Patent No: CN201721133174.0

SANSI
C2020-BE series

Smart Grow Light for High-power Greenhouse Planting

Smart remote control | high efficiency and energy saving | quality improvement and promotes growth

1. Multiple control methods like centralized controller, rotary switches. Efficient and convenient.

- According to user needs, a variety of control methods can be customized to achieve switching time, irradiation time and spectrum ratio. All can meet users' needs and can be set freely.

2. Ceramic heat dissipation, stable and reliable

- The whole light adopts ceramic heat sink, which has fast heat dissipation, corrosion resistance and good insulation. It makes up for the shortage of traditional aluminum substrate leakage and becomes reliable, durable and long service life.

3. IP65

- With IP65 design, SANSI LED grow lights are waterproof and dustproof and can operate under tough conditions.

4. Installation can be easy and efficient with cast aluminum. Fast maintenance and durability.

5. Adjustable red-blue spectral ratio can improve color, shape and taste of plants

- Light controls photosynthesis in plants as an energy and signal. It affects all aspects of plant growth. These can be applied to C2020-BE grow lights. C2020-BE grow lights can meet the needs of different growth stages from production to harvest, such as growth stages, leafy stages, and fruiting stages.

The most efficient and convenient thing is when you change plants, you do not need to change the light, you just need to adjust the spectrum to fit your new plants.
Technical Parameters

<table>
<thead>
<tr>
<th>Model</th>
<th>Wattage</th>
<th>Input Voltage</th>
<th>Beam Angle</th>
<th>Spectrum</th>
<th>Power Factor</th>
</tr>
</thead>
<tbody>
<tr>
<td>C2020-BE-200W-FW</td>
<td>200W</td>
<td>AC 100-277V, 50/60Hz</td>
<td>60°</td>
<td>Full Spectrum</td>
<td>≥ 0.9</td>
</tr>
<tr>
<td>C2020-BE-200W-RB</td>
<td>200W</td>
<td>AC 100-277V, 50/60Hz</td>
<td>60°</td>
<td>Red-blue Spectrum</td>
<td>≥ 0.9</td>
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<tr>
<td>C2020-BE-400W-FW</td>
<td>400W</td>
<td>AC 100-277V, 50/60Hz</td>
<td>60°</td>
<td>Full Spectrum</td>
<td>≥ 0.9</td>
</tr>
<tr>
<td>C2020-BE-400W-RB</td>
<td>400W</td>
<td>AC 100-277V, 50/60Hz</td>
<td>60°</td>
<td>Red-blue Spectrum</td>
<td>≥ 0.9</td>
</tr>
</tbody>
</table>

Applications

- APP/Centralized Controller/Tuner
- 50,000 hrs
- IP65
- 662*145*161.2mm

Full Spectrum / Light Distribution Curve

- C2020-BE-200W-FW / C2020-BE-400W-FW
- 1.131, 2.545, 4.524
- 1.0, 1.5, 2.0
- 145, 66, 38

- C2020-BE-200W-RB / C2020-BE-400W-RB
- 2.545, 4.524, 7.069
- 1.0, 1.5, 2.0
- 132, 60, 34

- C2020-BE-200W-FW / C2020-BE-200W-RB
- 1.131
- 1.0
- 132

- C2020-BE-400W-FW / C2020-BE-400W-RB
- 2.545
- 1.5
- 60
C2010-CE series
SANSI LED Grow Bar Light

Module assembly | Ceramic heat dissipation | Spectral customization | Costs-saving | Meet top lighting conditions

1 Easy to install  Cost-savings
- Grow light modules can be assembled by power supply so as to save installation time, material and fees effectively.

2 Ceramic heat dissipation, stable and reliable
- The whole light adopts ceramic heat sink, which has fast heat dissipation, corrosion resistance and good insulation. It makes up for the shortage of traditional aluminum substrate leakage and becomes reliable, durable and long service life.

3 Customized spectral patterns improve quality and style
- Spectral customization has met the different needs and stages of plant growth such as vegetative growth stage, flowering stage and so on. You can set your most provable spectrum recipe to best suit your plant and make the vegetable harvest possible all year.

4 Modular design, economical and durable
- The structural design of lights can be assembled for vertical racks or low mounting height applications. The natural light can provide plants with the required energy through the gap between the modules to increase daily light integral.
- The modules are easy to install, disassemble and transport. They can help users reduce economic costs.

Technical Parameters

<table>
<thead>
<tr>
<th>Model</th>
<th>Wattage</th>
<th>Input Voltage</th>
<th>Beam Angle</th>
<th>Power Factor</th>
<th>Dimming</th>
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<td>/</td>
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<tr>
<td>C2010-CE-100W</td>
<td>100W</td>
<td>AC 100-240V, 50/60Hz</td>
<td>60°</td>
<td>0.9</td>
<td>N/A</td>
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<tr>
<td>C2010-CE-150W</td>
<td>150W</td>
<td>AC 100-240V, 50/60Hz</td>
<td>60°</td>
<td>0.9</td>
<td>N/A</td>
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</table>

Spectrum | Lifespan | IP Degree | Dimensions | Certification |
<table>
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<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Vegetative- flowering</td>
<td>50,000 hrs</td>
<td>IP65</td>
<td>736.08x141x37mm</td>
<td>ETL, CE</td>
</tr>
<tr>
<td>Vegetative- flowering</td>
<td>50,000 hrs</td>
<td>IP65</td>
<td>736.08x141x37mm</td>
<td>ETL, CE</td>
</tr>
<tr>
<td>Vegetative- flowering</td>
<td>50,000 hrs</td>
<td>IP65</td>
<td>736.08x141x37mm</td>
<td>ETL, CE</td>
</tr>
</tbody>
</table>

Dimensions (mm) / Light Distribution Curve

Installation Method

Applications
C21FS-CE series

All-wing LED light series
Ceramic heat dissipation | 180° opening | Hollow-carved design | IP65

-90° ~ 90° adjustable
- LED panels are adjustable and each light head can be folded vertically 90°, each wing is 90° adjustable, able to produce light in the desired direction.

Ceramic heat dissipation, stable and reliable
- The whole light adopts ceramic heat sink technology, which has fast heat dissipation, corrosion resistance and good insulation. It makes up for the shortage of traditional aluminum substrate leakage and becomes reliable, durable and extends the service life.

IP65
- IP65 can effectively reduce the impact of moisture, dust and other properties on the performance of the product.

Customized light formula to meet a variety of plant needs
- Customized full spectrum, growth period, flowering period and other different spectrums. They are highly targeted and customized reasonable light supplement solutions for plants.

Uniform spectral ratio, significantly improve plant quality and uniformity
- The central light intensity is close to the edge light intensity, and the spectral ratio is uniform.

Technical Parameters

<table>
<thead>
<tr>
<th>Model</th>
<th>Input Voltage</th>
<th>Wattage</th>
<th>Beam Angle</th>
<th>Spectrum</th>
</tr>
</thead>
<tbody>
<tr>
<td>C21FS-CE-60W</td>
<td>AC 100-277V 50/60Hz</td>
<td>60W</td>
<td>90°,120°</td>
<td>Full spectrum</td>
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<tr>
<td>C21FS-CE-120W</td>
<td>AC 100-277V 50/60Hz</td>
<td>120W</td>
<td>90°,120°</td>
<td>Vegetative</td>
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<tr>
<td>C21FS-CE-240W</td>
<td>AC 100-277V 50/60Hz</td>
<td>240W</td>
<td>90°,120°</td>
<td>Flowering</td>
</tr>
<tr>
<td>C21FS-CE-240W</td>
<td>AC 100-277V 50/60Hz</td>
<td>240W</td>
<td>90°,120°</td>
<td>Customized</td>
</tr>
</tbody>
</table>

Installation Method

Model         | Installation method | Control Method       | Lifespan | IP Degree | Certification |
-------------|---------------------|----------------------|----------|-----------|--------------|
C21FS-CE-60W | E26/E27             | Without control      | 50000 hrs| IP65      | ETL, FCC     |
C21FS-CE-120W| Hoisting            | Photosensor control  | 50000 hrs| IP65      |              |
C21FS-CE-240W| Hoisting            |                      | 50000 hrs| IP65      |              |

Product Pictures

Screw

Hook

SANSI LED GROW LIGHTS
Technology that constantly creates value
Dimensions (mm)

Light Distribution Curve

Applications
C21TL-BE39
SANSI Full Spectrum LED Grow Light
Wide range of illumination | Ceramic heat dissipation | Inter lighting | IP65

1 Easy to install
- The installation methods such as hooking, lifting, and screwing. Users can install the lights quickly without replacing the original equipment, thereby effectively reducing the installation costs.

2 Ceramic heat dissipation, stable and reliable
- The whole light adopts ceramic heat sinks, which has fast heat dissipation, corrosion resistance and good insulation. It makes up for the shortage of traditional aluminum substrate leakage and becomes reliable, durable and has a long service life.

3 IP65
- IP65 effectively reduces the impact of moisture, dust and other properties on the performance of the product.

4 Full spectrum Uniform spectral ratio
- SANSI LED grow lights adopt a unique light distribution and lens design. The center light intensity is close to the edge, and the spectral ratio is uniform, which effectively improves the plant quality and uniformity.

Technical Parameters

<table>
<thead>
<tr>
<th>Model</th>
<th>Input Voltage</th>
<th>Wattage</th>
<th>Beam Angle</th>
<th>Lifespan</th>
<th>Spectrum</th>
<th>IP Degree</th>
<th>Certification</th>
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</thead>
<tbody>
<tr>
<td>C21TL-BE39-60W</td>
<td>AC 120V, 60Hz</td>
<td>60W</td>
<td>60°, 120°</td>
<td>30000hrs</td>
<td>Full Spectrum</td>
<td>IP65</td>
<td>ETL, CIE</td>
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</tbody>
</table>

Dimensions(mm)

Light Distribution Curve

Applications

Product Pictures
C21GL /C2020-DE series

"Smart"LED grow Light for Indoor Plants

Full spectrum | Low heat radiation | Ceramic heat dissipation | Standard socket | Aesthetic Appearance

1. Low heat radiation, effectively avoiding the risk of "burning" of plants
   - SANSI LED grow lights do not contain deep infrared light (IR) with wavelength >1000nm. They can reduce the amount of light radiated onto the plants.

2. Ceramic heat dissipation, stable and reliable
   - The whole light adopts ceramic heat sink, which has fast heat dissipation, corrosion-resistance and good insulation. It makes up for the shortage of traditional aluminum substrate leakage and becomes reliable, durable and long-service life.

3. Standard E26/27 socket Easy to install

4. Full spectrum Uniform spectral ratio
   - SANSI LED grow lights adopt a unique light distribution and lens design. The center light intensity is close to the edge, and the spectral ratio is uniform, which effectively improves the plant quality and uniformity.

Applications

C21GL-DE26/27

Technical Parameters

<table>
<thead>
<tr>
<th>Model</th>
<th>Wattage</th>
<th>Input Voltage</th>
<th>Spectrum</th>
<th>Beam Angle</th>
<th>Dimming</th>
<th>Lifespan</th>
<th>IP Degree</th>
<th>Lamp Socket</th>
<th>Dimensions</th>
<th>Certification</th>
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</thead>
<tbody>
<tr>
<td>C21GL-DE26/27</td>
<td>15W</td>
<td>AC 120V/50Hz/60Hz</td>
<td>Full spectrum</td>
<td>60°</td>
<td>No</td>
<td>25,000hrs</td>
<td>IP65</td>
<td>E26/27</td>
<td>φ76×105(mm)</td>
<td>ETL, CE</td>
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Dimensions(mm)

Full spectrum / Light Distribution Curve
### Technical Parameters

<table>
<thead>
<tr>
<th>Model</th>
<th>Wattage</th>
<th>Input Voltage</th>
<th>Spectrum</th>
<th>Beam Angle/Dimming</th>
<th>Lifespan</th>
<th>IP Degree</th>
<th>Lamp Socket</th>
<th>Dimensions</th>
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</thead>
<tbody>
<tr>
<td>C21GL-AE26/27</td>
<td>15W</td>
<td>AC 120V,50Hz/60Hz</td>
<td>Full spectrum</td>
<td>No</td>
<td>25,000hrs</td>
<td>E26/27</td>
<td>Ø88<em>101</em>91mm</td>
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<table>
<thead>
<tr>
<th>Model</th>
<th>Height(m)</th>
<th>Area(m²)</th>
<th>PPFD (μmol/s/m²)</th>
<th>Certification</th>
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<tbody>
<tr>
<td>C21GL-AE26/27</td>
<td>0.5 / 1.0 / 1.5</td>
<td>0.283 / 1.131 / 2.545</td>
<td>111.56 / 27.94 / 12.42</td>
<td>ETL, CE</td>
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</table>

### Dimensions(mm)

- **C21GL-AE26/27**
  - Diameter: 88mm
  - Height: 101mm
  - Area: 200x193x38mm

- **C2020-DE-50W/100W**
  - Diameter: 333x223x67mm
  - Height: 333x223x67mm
  - Area: 200x193x38mm

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**Certification**
- ETL
- CE
### Technical Parameters

<table>
<thead>
<tr>
<th>Model</th>
<th>Wattage</th>
<th>Input Voltage</th>
<th>Spectrum</th>
<th>Beam Angle</th>
<th>Dimming</th>
<th>Lifespan</th>
<th>IP Degree</th>
<th>Lamp Socket</th>
<th>Dimensions</th>
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<td>24W</td>
<td>AC 120V,60Hz</td>
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<td>60°</td>
<td>No</td>
<td>25,000hrs</td>
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<tr>
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<td>AC 220V,50Hz</td>
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<tr>
<td></td>
<td>36W</td>
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<td>E26/27</td>
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<td>AC 220V,50Hz</td>
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### Dimensions(mm)

<table>
<thead>
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<th>Model</th>
<th>Height (m)</th>
<th>Area(㎡)</th>
<th>PPFD(μmol/s/㎡)</th>
<th>Certification</th>
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<td>4.824</td>
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<td>1.5</td>
<td>7.069</td>
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<td>7.069</td>
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Note: All product pictures in the promotional materials are for reference only. The data in the table are from SANSI.