LED Bulbs

Advanced Lighting, Inc. manufactures LED bulbs that fit in ***existing fixtures*** (as seen below), which makes them ready for use in a variety of applications.

Electricity consumption	5% - 10% of incandescent bulbs
Reliability	High - vibration resistant *(No filament!)*
Technology	Solid State semiconductor *(No filament!)*
Flashing	Instant and/or dimming (adds to life cycle)
Colors	Pure and sharp narrow band wavelengths
Maintenance	None
Heat	Cool bulb surface (average - 1 degree Fahrenheit)
Environment	No haloization (Less light and heat pollution)

Advanced Lighting, Inc. can modify your existing lighting to ***LED*** in a number of ways. From existing bulb sockets to hard-wired installation, the transition to ***LED*** is ***seamless.***

For additional information contact the DSCP Lighting Team 1-800-DLA-BULB

LED BULBS

A-19
Base: Medium
Description: Frosted or clear
Volts: 120
Watts: .9
Available in all colors

S-14
Base: Medium
Description: Frosted or clear
Volts: 120
Watts: .9
Available in all colors

G Series
Base: Medium
Description: Clear
Volts: 120
Watts: .9 - 1.5
Available in all colors

Par Series
Base: Medium
PAR-16, PAR-20
PAR-30, PAR-38
Available in all colors

TECHNICAL SPECIFICATIONS* A-19, S-14, G-30, R-20 LED Bulbs

Preliminary Data Sheet

Input Voltage. . . . . 120 VAC
Average Input Power . . . . . <1 Watt - 1.7 W
Estimated Life . . . . . > 100,000 Hours
Base . . . . . Long Life Base, Medium
Bulb Types . . . . . A-19, S-14, G-30, R-20 Clear / Ceramic, No Globes, Others Available
Colors . . . . . Red, Amber, Green. Blue, White
Light Source . . . . . High Brightness LED array
Surge protection . . . . . Internal TVS
Heat Produced . . . . . 3.4 BTU/hr

DESCRIPTION

This new series of solid state electronic light bulbs are a breakthrough in decorative lighting and energy savings. Using the highest efficiency LED light sources, these lamps out-perform incandescent, halogen and florescent lamps in terms of light output per given unit of power consumed. Standard 25 watt incandescent colored light bulbs can be replaced with the new LED light bulbs with a greater than 25-1 power savings. This along with the color fast technology and extremely long life, applications in shopping malls, amusement parks, restaurants and signs are ideal markets for this technology. The LED bulb generates its color by use of LED technology along with a patent pending method of mixing the light sources together to create various colors.

The bulbs are offered in both a point source, clear bulb and a diffused soft white bulb type that replaces standard colored bulbs. This allows new techniques in lighting that were never before available until now. These bulbs can be designed for dimming and also can be Teflon coated.

* Statistics may vary depending on number of LEDs used

For additional information contact the DSCP Lighting Team 1-800-DLA-BULB

LED Bulbs

High Efficiency Rotating Bulbs

Single or Double Sided
Base: Long life base, brass, medium, ranged; Estimated Life: Over 100,000 Watt Hours; Volts: 87-125; Watts: .9
Available in all colors

TECHNICAL SPECIFICATIONS RSS BULB

PRELIMINARY DATA SHEET Revised 5/6/2000

Input Voltage 87-125VAC, 57-63Hz
Average Input Power. . . . . < 1 Watt
Estimated Life. . . . . > 100,000 Watt Hours
Base. . . . . Long Life Brass, Medium, Flanged
Bulb Type . . . . . Open PCB, Optional Polycarbonate Bulb
Colors . . . . . Red, Amber, Green, Blue, White
Light Source . . . . . High Brightness 8 LED Array
Surge Protection . . . . . Internal 600W TVS
Rotation and Coverage . . . . . 360 Degree with 30 Degree Beam Speed

DESCRIPTION

Our new series of solid state electronic light bulbs are a breakthrough in signal lighting applications and energy savings. Using the newest, brightest high efficiency LED light sources, these lamps out perform incandescent, halogen and florescent lamps in terms of light output per given unit of power consumed. Standard 60 watt incandescent colored light bulbs can be replaced with our directional LED light bulbs with a greater than 60 to 1 power savings for equal light output. This, along with a 100,000 hour useful life and high vibration tolerance, allows use in industrial environments where safety and control indication is required, such as loading dock backup indicators, and danger areas where “Red” or “Green” indicator lights are needed. Other applications include fire extinguisher locations in buildings, railroad and utility signaling indicators on control boxes, or any other area where a low power, high visibility and highly reliable indicator is necessary. The energy savings, reduced maintenance cost, along with the longer life of this product more than offsets the initial cost verses other lighting sources. In fact, this product will pay for itself in less than a year for most applications.

For additional information contact the DSCP Lighting Team 1-800-DLA-BULB

LED BULBS

S-6
Base: Candelabra
Description: Clear
Volts: 24
Watts: .4
Available in all colors

TECHNICAL SPECIFICATIONS* S-6 LED

Preliminary Data Sheet

Input Voltage 12-28V
Average Input Power . . . . . .5 Watts
Estimated Life . . . . . > 100,000 Hours
Colors . . . . . Red, Amber, Green, Blue, White
Light Source . . . . . High Brightness LED array

DESCRIPTION

This series of LED solid state electronic light bulbs are designed for decorative lighting. Using the highest efficiency LED light source, these lamps out-perform other bulbs in terms of light output per given unit of power consumed. This along with the color fast technology and extremely long life make these bulbs a perfect application for accent lighting and signs.

* Statistics may vary with number of LEDs used

TECHNICAL SPECIFICATIONS 757 LED

Preliminary Data Sheet

Input Voltage 5-120V
Average Input Power. . . . . < 1 Watt
Estimated Life . . . . . > 100,000 Hours
Base . . . . . Candleabra base
Colors . . . . . Red, Amber, Green, Blue, White
Light Source . . . . . High Brightness LED

DESCRIPTION

Ideal for circuit boards and light panels. Using the highest efficiency LED light source, the 757 LEDs out-perform other bulbs.

For additional information contact the DSCP Lighting Team 1-800-DLA-BULB

LED Bulbs

Chameleon

Base: Medium
Description: Medium
Volts: 120
Watts: .9
Changes colors at various speeds

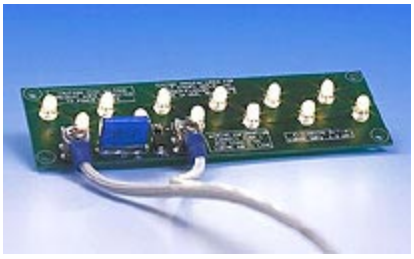
TECHNICAL SPECIFICATIONS COLOR CHANGING LED LIGHT MODULE

PRELIMINARY DATA SHEET

Input Voltage 12VDC
Input Current 150mA
Polarity . . . . . Reverse Polarity Protection
Connections . . . . . 24AWG Stranded Flying Leads 12"
Recommended Power Supply . . . . . 12V 200mA Wallmount Type
Wire Gauge . . . . . #24 AWG Stranded
Number of LED's 12
Driver Type . . . . . Constant Current Power MOSFET
Colors . . . . . Analog Driven RGB Array Produces Infinite Color Patterns
Modulation Type . . . . . Steady Rising, Falling Ramp
Cycle Type . . . . . Rise – Fall 1-2 Seconds
LED type T1 ¾ (5mm). . . . . AllnGap (Red) InGaN (Blue, Green)
PCB Material . . . . . UL 94-VO FR-4 G10 Fiberglass
PCB Design. . . . . 2 Board Stack, Double Sided
PCB Diameter . . . . . 1.12"
PCB Thickness. . . . . .062"
Module Thickness. . . . . .800"
Product Life . . . . . 100,000 Hours

DESCRIPTION

The Chameleon Module is useful for integration in a variety of accent and decorative lighting applications. Uses include but are not limited to: lighting under bottles, water displays, splash lighting, ice sculptures, sales gimmicks, edge lighting glass, novelties etc. The compact size and low voltage power supply allows for easy integration into product and displays.



Custom Fittings

Advanced Lighting not only has all of the classic stylings, but also specializes in custom fixtures and designs.

For additional information contact the DSCP Lighting Team 1-800-DLA-BULB

LED BULBS

Strip Lighting

Comes in 6" or 12" sections with single or double LEDs or triple LEDs with a DMX controller. Available in all colors. Can be mounted in our polycarbonate tube for exterior use. Simply plug the strips together for a great effect

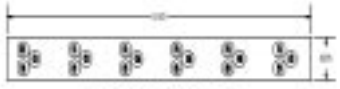
TECHNICAL SPECIFICATIONS B-F MODEL CCS106, CCS100

PRELIMINARY DATA SHEET Revised March 8, 2000

Input Voltage 24VDC
Input Current Per Color Max. . . . . 35mA/Ft.
Maximum Number of Strips per Power Run 20
Number of LED's 18
Modulation Input, Analog or PWM 0-100% . . . . . 0 - 5V
Modulation Input Impedance Per Strip . . . . . 100K Ohms
Driver Type . . . . . Constant Current Power MOSFET
Connector Power Rating 2A
LED type T1 3/4 (5mm) . . . . . AllnGap (Red) InGaN (Blue, Green)
PCB Material . . . . . UL 94-V0 FR-4 G10 Fiberglass
PCB Design . . . . . 4 Layer Inner Power and Ground
Length Mated Section B-F Model CCS106 . . . . . 6.00"
Length Mated Section B-F Model CCS100. . . . . 12.00"
LED Spacing, Per Triad . . . . . 1.00"
PCB Length .B-F Model CCS106 . . . . . 5.93"
PCB Length B-F Model CCS100 . . . . . 11.93"
PCB Width . . . . . .625"
PCB Thickness . . . . . .062"
Maximum Fused or Current foldback per Power Run. 3A
Recommended Power Supplies Linear. . . . . Power One 12A 24 VDC F24-12-A
Recommended Power Supplies Switching . . . . . Lambda 150W 24 VDC JWS150-24/A
Cables . . . . . B-F's CAB-0001, CAB-0003, CAB-0004
Cable Wiring Gauge . . . . . #22 AWG Stranded
Connector . . . . . Molex KK series 7880 Order # 10-11-2503
Connector Pins . . . . . Molex KK Crimp Terminal 7879 High Pressure Order # 08-50-0005

DESCRIPTION

B-F LED lighting strips from Advanced Lighting, Inc. are useful for all decorative lighting where conventional incandescent strip lighting is used. Long life of the LED's 100,000 plus hours assures your lighting will not have unsightly gaps caused from failed bulbs. Along with this, energy savings and bright cheerful colors generated by the LED's will benefit your lighting application. The sections simply plug together with no gaps in the LED spacing to give an effect of one long strip and can be mounted in our polycarbonate tube or fit your custom application. LED's Red, Green and Blue triads are spaced 1.00" apart to create a splash lighting effect of one continuous color-changing lamp. Drivers for this light strip include the use of low cost analog drivers and color switching circuits, PLC's, B-F's color wash controller CW 12/200 our B-F's microprocessor based DMX controller the DMX 12/200. The DMX-512 can control up to 200 strips and run 12 independent DMX channels. Contact sales and marketing personnel for tips on custom installations of this product. Our unique MOSFET current source driver circuits are both analog 0-5V and PWM 5V 0 - 100% compatible with LED drive power matched so they can't be overdriven and also match brightness output per strip regardless of cable voltage drop.



The B-F CCS106 Light Strip

The CCS-100 Light Strip

LED Bulbs

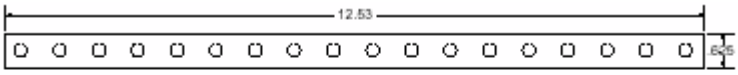
TECHNICAL SPECIFICATIONS B-F MODEL LS1001/LS1002

PRELIMINARY DATA SHEET

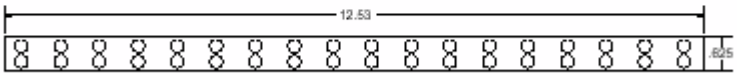
Input Voltag. . . . . 24 VDC
Input Current LS 1001 Red / Amber . . . . . 100mA/Ft.
Input Current LS 1001 Green / Blue / White . . . . . 70mA/Ft.
Input Current LS 1002 Red / Amber . . . . . 200mA/Ft.
Input Current LS 1002 Green / Blue / White . . . . . 140mA/Ft.
Maximum Number of Strips per Power Run LS 1001 Red / Amber 40
Maximum Number of Strips per Power Run LS 1001 Green / Blue / White. 55
Maximum Number of Strips per Power Run LS 1002 Red / Amber 20
Maximum Number of Strips per Power Run LS 1002 Green / Blue / White. 27
Number of LEDs LS 1001. 18
Number of LEDs LS 1002. 36
Connector Power Rating 4A
LED type T 1 ¾ (5mm) . . . . . AlInGaP (Red / Amber) InGaN (Blue / Green / White)
PCB Material. . . . . UL 94-VO FR-4 G 10 Fiberglass
PCB Design . . . . . 4 Layer Inner Power and Ground
Length Mated Section . . . . . 12.60”
LED Spacing . . . . . .70”
PCB Length . . . . . 12.53”
PCB Width . . . . . .625”
PCB Thickness . . . . . .062”
Maximum Fused or Current foldback per Power Run. 5A
B-F Solid State Fuse and Distribution PCB BFPS-0001
B-F 500W Power Supply, Solid State fuse and distribution unit . . . . . BF –500W-PS
Cables . . . . . B-F CAB-0001, CAB-0002, CAB-0003
Connector Wiring Guage. . . . . #24 AWG Stranded
Connector. . . . . Molex KK Series 7880 Order #10-11-2503
Connector Pins. . . . . Molex KK Crimp Terminal 7879 High Pressure Order #08-50-0005

DESCRIPTION

LED light strips are useful for all decorative lighting where conventional incandescent strip lighting is used. Long life of the LEDs, 100,000 hours or greater, assures that your lighting will not have any unsightly gaps caused from failed bulbs. The light strips are available in single LED row (Model 1001) or dual LED row (Model 1002) which provides twice the light output. The sections simply plug together with no gaps in the spacing to give an effect of one long strip. This long strip can be mounted in our optional polycarbonate tube or fit your custom application. Use B-F solid state fuse, distribution PCB for ease of cabling and fusing when using an external 24V power supply or use our 500 watt power supply for large installations. Options include mixing every other LED color or mixing every three LED’s color. Examples are Red and Green or Red, White and Blue repeating patterns.



The LS1001 Light Strip



The LS1002 Light Strip

For additional information contact the DSCP Lighting Team 1-800-DLA-BULB

DMX 12/200 Controller

Primarily designed to control ALI's LED Strip Light products, the 12/200 controller provides a pass thru type of connection to the DMX network by using both an input connector and an output connector so multiple devices can share one line from the DMX master control point

TECHNICAL SPECIFICATIONS B-F MODEL DMX 12/200 CONTROLLER

PRELIMINARY DATA SHEET Revised March 6, 2000

Input Voltage 24VDC
Input Current . . . . . 40A max.
DMX Input . . . . . 5 Pin XLR Male Connector
DMX Output Pass thru. . . . . 5 Pin XLR Female Connector
Outputs. . . . . 4 Banks RGB, 12 Channel DMX
Output Analog Drive Voltage Range . . . . . 0 – 10V Low and High Offsets
RGB Driver Current, Each Row . . . . . 10mA. Max
24V Max Load Current Each Output . . . . . 2 Ampere
Maximum # of CC100 Strips per Output Connector 10
Maximum # of CC100 Strips per Row 50
Maximum # of CC100 Strips per Controller 200
Cables . . . . . B-F CAB-0001, CAB-0003, CAB-0004
Address Selection . . . . . Base address selected with 3 rotary switches
Status Quo (SQ) . . . . . If enabled maintains levels during loss of signal
Test . . . . . When enabled allows outputs to be brought to full based on address setting
Term. . . . . When enabled terminates line with 100 ohm resistor
Protocol . . . . . DMX512/1990 Standard Compliant
Run LED, Green . . . . . On = Running, Off = No power, Flashing = Hardware Failure
RXD LED, Amber . . . . . On = Data being received, OFF = No data or address out of range

DESCRIPTION

The 12/200 controller is primarily designed to control B-F's LED Strip Light products. It is based on the DMX512 standard put in place by the United States Institute for Theatre Technology, Inc. in an attempt to make a standardized interface for integration of multiple vendors devices in one network, B-F's 12/200 controller provides a pass thru type of connection to the DMX network by using both an input connector and an output connector so multiple devices can share one line from the DMX master control point. The 12/200 uses 12 sequential addresses with the base address being selected with the rotary address switch. The address selection is made simple using decimal not binary settings, so setup is less complicated. The 12 outputs are configured as follows. Channels 1-3 = R, G, B on bank 1's outputs, Channels 4-6 = R, G, B on bank 2's outputs, Channels 7-9 = R, G, B, on bank 3's outputs and Channels 9-12 = R, G, B on bank 4's outputs. Each bank provides 5 connectors each with solid state fuses on the power leads, and R, G, B control signals. Cables simply connect the controller to a section of CC100 strip providing both power and control signals to the strips.

For additional information contact the DSCP Lighting Team 1-800-DLA-BULB

LED Bulbs

12 Channel Analog Color Wash

Primarily designed to control ALI's LED Strip Light products. Each bank provides 5 connectors each with solid state fuses on the power leads, and R, G, & B control signals. Cables simply connect the controller to a section of CC100 or CC106 strips, providing both power and control signals.

TECHNICAL SPECIFICATIONS B-F MODEL CW 12/200 CONTROLLER

PRELIMINARY DATA SHEET Revised 3/6/2000

Input Voltage 24VDC
Input Current . . . . . 40A max.
Outputs . . . . . 4 Banks RGB, 12 Channel Analog Color Wash
Controls . . . . . Separate Red, Green and Blue Pots on each Bank
Control Function . . . . . Each Color Cycle is a Fade up / Fade Down in a Linear Slope
Control Timing. . . . . Each Color can be adjusted from 1/10 to over 5 Seconds of Cycle Time
Output Analog Drive Voltage Range . . . . . 1V – 5V Analog
RGB Driver Current, Each Row . . . . . 10mA. Max
24V Max Load Current Each Output, Internal Solid State Fuses . . . . . 2 Ampere
Maximum # of CC100 Strips per Output Connector 10
Maximum # of CC100 Strips per Row 50
Maximum # of CC100 Strips per Controller 200
Cables . . . . . B-F CAB-0001, CAB-0003, CAB-0004
Enclosure . . . . . Aluminum, Black anodize and Scratch Resistant Power Coat
Physical Size. . . . . 11" x 5" x 2"
Input Power Terminals . . . . . # 10 Studs

DESCRIPTION

The CW 12 / 200 controller is primarily designed to control B-F's LED Strip Light products. Each bank provides 5 connectors each with solid state fuses on the power leads, and R, G, & B control signals. Cables simply connect the controller to a section of CC100 or CC106 strips, providing both power and control signals. Fade effects can be modified by adjusting the color control Pots. on each of the colors. By setting the R, G, & B controls to slightly different speeds an infinite pattern of non repeating colors is generated. Because the system is totally analog based the colors mix in a true non-repeating infinite color combination. Base speeds are adjustable to generate a fast lively mood to a slow relaxing wash of colors. 12 channels are provided so multiple effects can be generated having rows of light running at different speeds and or colors at the same time.

For additional information contact the DSCP Lighting Team 1-800-DLA-BULB

24V Power Distribution Card

The ALI Power Distribution Card makes it an easy task to connect strip light product models LS 1001 and LS 1002 to the main 24VDC power supply.

TECHNICAL SPECIFICATIONS B-F MODEL BFPS-0001

PRELIMINARY DATA SHEET Revised 3/6/2000

Input Voltage 24VDC
Input Current . . . . . 25A max.
Outputs. . . . . Terminal Block and 5 Pin Headers
Output Current rating . . . . . 2A per wire, Internal Solid State Fuses
Number of Outputs. . . . . 8 (5 Pin) Headers or 32 Terminal post
Recommended Cables . . . . . B-F CAB-0001, CAB-0003, CAB-0004
Physical Size . . . . . 4.0” x 2.7”
Input Power Terminals . . . . . .25” Faston Type
PCB Material . . . . . G10, FR-4 UL-94VO Epoxy Glass

DESCRIPTION

The B-F Power Distribution Card makes it an easy task to connect strip light product models LS 1001 and LS 1002 to the main 24VDC power supply. Simply connect the power from the OEM bulk supply to the input terminals marked +24V and –24V using appropriate wire size and .25” Faston type terminals. The card provides solid-state fuses on every output line with a rating of 2 amperes per line. This allows UL listed 22 or 24 AWG stranded wires or cables to be safely connected to a single high output current power supply. Two choices of output connections are provided. Screw terminal strips with 16 positive 25V outputs and 16 negative outputs or 8 five-pin headers for use with one to one cables to the strip lights.

For additional information contact the DSCP Lighting Team 1-800-DLA-BULB

LED Bulbs

This page reserved for a table of all the part numbers available.

Need to know if ALI has a part number for your products so I can add to the table and the Federal Records