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BASE SERIES - PRELIMINARY

High Performance AC Driverless COB LED Engines with BJB’s New Lampholder Removable Base

Our twist and lock removable BASE Series use our patented AC Driverless LED REACT™ technology. Like all our engines and modules, they utilize direct AC power but this series is very unique with its twist and lock removability feature. The engine features a twist and lock design that works with BJB’s new Lampholder base series. This series is perfect for track lights, down lights, and other applications that require precise beam control and are easily removable. They are suitable for commercial, residential, and industrial uses. You’ll be impressed with the flexibility they offer you, as a result of their Chip-On-Board technology. As well as their optional reflectors and optical lenses using our click in place interface. It makes them perfect for many lighting applications. Because our BASE series LED Driverless engines run on direct AC current, they offer you:

REACT™ LED TECHNOLOGY

BENEFITS
- Slim, simple and cost effective design
- Connect directly to AC, no external driver needed
- High system efficacy
- Low total life cycle cost
- Flicker free AC operation
- Field removable engine in cooperation with BJB

PERFORMANCE
- 50,000 hours (B50L70@Tc=65°C)
- Lumen output ranging from 600lm to 2000lm
- Color temperatures ranging from 2700K to 5000K.
- CRI 80+ (90+ available)
- Colour Consistency = 3 SDCM

ELECTRICAL CHARACTERISTICS
- Input voltage: 120VAC (230VAC coming soon)
- High power factor (>0.9) with no electrolytic capacitor or inductors
- Lower THD level is compatible with strict regulatory standards worldwide
- Over voltage, over temperature and input surge protection
- Compatible with current (ELV) reverse phase dimmers
- Use the new BJB lamp holder (28.720.xxx) accessory for direct AC connection

REGULATORY COMPLIANCE
ETL
UL (under process)

DETAILS

LED Package
BAS03-601-830-120-C3
C - COB
S - SMD

Product Level
BAS03-601-830-120-C3
1 - medium
2 - high
3 - supreme
**PUCK-C SERIES**

**High Performance COB**
**Direct AC LED Driverless Light Engines**

Our ultra-compact Puck Series use our patented driverless AC LED REACTM technology. They include options of either COB or SMT designs. This series is perfect for use in portable desk and floor lamps, pendants, low-profile down lights, recessed down lighting and other applications that require precise beam control. And they are suitable for commercial, residential, and industrial uses. You'll be impressed with the flexibility they provide you in manufacturing, as a result of their Chip-On-Board technology. As well as their optional reflectors and optical lenses using our click in place interface. Because our Puck Series LED engines run on direct AC current, they offer you:

**REACTM LED TECHNOLOGY**

**BENEFITS**
- Slim, simple and cost effective design
- Connect directly to AC, no external driver needed
- High system efficacy
- Low total life cycle cost
- Flicker free AC operation

**PRODUCT LINE (120V)**

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Notes:
- All LED Light Modules are available in 2700K, 3000K, 3500K, 3500K, 4000K and 5000K
- Current models are 120VAC, 230VAC version coming soon
- All lumen output and light efficacy are measured at 3000K, 3500K, Tc = 65°C
- Optimal case temperature Tc = 65°C
- Storage temperature : -40°C ~ 80°C
- Operating temperature : -35°C ~ 65°C

**PERFORMANCE**
- 50,000 hours (B50L70@Tc=65°C)
- Lumen output ranging from 600lm to 1100lm
- Color temperatures ranging from 2700K to 5000K.
- CRI 80+ (90+ available)
- Colour Consistency = 3 SDCM
- BJB push connectivity

**ELECTRICAL CHARACTERISTICS**
- Input voltage: 120VAC (230VAC coming soon)
- High power factor (>0.9) with no electrolytic capacitor or inductors
- Lower THD level is compatible with strict regulatory standards worldwide
- Over voltage, over temperature and input surge protection
- Compatible with current (ELV) reverse phase dimmers

**REGULATORY COMPLIANCE**
ETL
UL (under process)

**DETAILS**

**LED Package**
- PCK02-112-830-120-C1
  - C - COB
  - S - SMD

**Product Level**
- PCK02-112-830-120-C1
  - 1 - medium
  - 2 - high
  - 3 - supreme
PUCK-S SERIES

High Performance SMD
Direct AC LED Driverless Light Engines

Our ultra-compact Puck Series use our patented driverless AC LED REACT™ technology. They include options of either COB or SMT designs. This series is perfect for use in portable desk and floor lamps, pendants, low-profile down lights, recessed down lighting and other applications that require precise beam control. And they are suitable for commercial, residential, and industrial uses. You'll be impressed with the flexibility they provide you in manufacturing, as a result of their Chip-On-Board technology. As well as their optional reflectors and optical lenses using our click in place interface. Because our Puck Series LED engines run on direct AC current, they offer you:

REACT™ LED TECHNOLOGY

BENEFITS
- Slim, simple and cost effective design
- Connect directly to AC, no external driver needed
- High system efficacy
- Low total life cycle cost
- Flicker free AC operation

PRODUCT LINE (120V)

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Notes:
- All LED Light Modules are available in 2700K, 3000K, 3500K, 4000K and 5000K
- Current models are 120VAC, 230VAC version coming soon
- All lumen output and light efficacy are measured at 3000K, 3500K, Tc = 65°C
- Optimal case temperature Tc = 65°C
- Storage temperature : -40°C ~ 80°C
- Operating temperature : -35°C ~ 65°C

PERFORMANCE
- 50,000 hours (B50L70@Tc=65°C)
- Lumen output ranging from 600lm to 1100lm
- Color temperatures ranging from 2700K to 5000K.
- CRI 80+ (90+ available)
- Colour Consistency = 3 SDCM
- BJB push connectivity

ELECTRICAL CHARACTERISTICS
- Input voltage: 120VAC (230VAC coming soon)
- High power factor (>0.9) with no electrolytic capacitor or inductors
- Lower THD level is compatible with strict regulatory standards worldwide
- Over voltage, over temperature and input surge protection
- Compatible with current (ELV) reverse phase dimmers

REGULATORY COMPLIANCE
ETL
UL (under process)

DETAILS

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<tr>
<th>LED Package</th>
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<td>2 - high</td>
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<tr>
<td>3 - supreme</td>
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CUBE-C SERIES

High Performance COB
Direct AC LED Driverless Light Engines

Our ultra-compact Cube Series use our patented AC Driverless LED REAC™ technology. They include options of either COB or SMT designs. This series is perfect for use in fixtures that require a square design such as recessed down lighting and many other applications that require precise beam control. They are suitable for commercial, residential, and industrial uses. You’ll be impressed with the flexibility they provide you in manufacturing, as a result of their Chip-On-Board technology. As well as their optional reflectors and optical lenses using our click in place interface. Because our Cube Series LED engines run on direct AC current, they offer you:

**REAC™ TECHNOLOGY**

**BENEFITS**
- Slim, simple and cost effective design
- Connect directly to AC, no external driver needed
- High system efficacy
- Low total life cycle cost
- Flicker free AC operation

**PRODUCT LINE (120V)**

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Notes:
- All LED Light Modules are available in 2700K, 3000K, 3500K, 4000K and 5000K
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- Optimal case temperature Tc = 65°C
- Storage temperature : -40°C ~ 80°C
- Operating temperature : -35°C ~ 65°C

**PERFORMANCE**
- 50,000 hours (B50L70@Tc=65°C)
- Lumen output ranging from 600lm to 1100lm
- Color temperatures ranging from 2700K to 5000K.
- CRI 80+ (90+ available)
- Colour Consistency = 3 SDCM
- BJB push connectivity

**ELECTRICAL CHARACTERISTICS**
- Input voltage: 120VAC (230VAC coming soon)
- High power factor (>0.9) with no electrolytic capacitor or inductors
- Lower THD level is compatible with strict regulatory standards worldwide
- Over voltage, over temperature and input surge protection
- Compatible with current (ELV) reverse phase dimmers

**REGULATORY COMPLIANCE**
ETL
UL (under process)

**DETAILS**

### LED Package
- CUB01-801-830-120-C1
  - C - COB
  - S - SMD

### Product Level
- CUB01-801-830-120-C1
  - 1 - medium
  - 2 - high
  - 3 - supreme
CUBE-S SERIES
High Performance SMD
Direct AC LED Driverless Light Engines

Our ultra-compact Cube Series use our patented AC Driverless LED REAC™ technology. They include options of either COB or SMT designs. This series is perfect for use in fixtures that require a square design such as recessed down lighting and many other applications that require precise beam control. They are suitable for commercial, residential, and industrial uses. You’ll be impressed with the flexibility they provide you in manufacturing, as a result of their Chip-On-Board technology. As well as their optional reflectors and optical lenses using our click in place interface. Because our Cube Series LED engines run on direct AC current, they offer you:

**Benefits**
- Slim, simple and cost effective design
- Connect directly to AC, no external driver needed
- High system efficacy
- Low total life cycle cost
- Flicker free AC operation

**Product Line (120V)**

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**Performance**
- 50,000 hours (B50L70@Tc=65°C)
- Lumen output ranging from 600lm to 1100lm
- Color temperatures ranging from 2700K to 5000K.
- CRI 80+ (90+ available)
- Colour Consistency = 3 SDCM
- BJB push connectivity

**Electrical Characteristics**
- Input voltage: 120VAC (230VAC coming soon)
- High power factor (>0.9) with no electrolytic capacitor or inductors
- Lower THD level is compatible with strict regulatory standards worldwide
- Over voltage, over temperature and input surge protection
- Compatible with current (ELV) reverse phase dimmers

**Regulatory Compliance**
ETL
UL (under process)

**Details**

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Notes:
- All LED Light Modules are available in 2700K, 3000K, 3500K, 3500K, 4000K and 5000K
- Current models are 120VAC, 230VAC version coming soon
- All lumen output and light efficacy are measured at 3000K, 3500K, Tc = 65°C
- Optimal case temperature Tc = 65°C
- Storage temperature : -40°C ~ 80°C
- Operating temperature : -35°C ~ 65°C
DISC SERIES - 2” & 3.5”
High Performance SMD
Direct AC LED Driverless Light Modules

Our ultra-compact, ultra-thin Disc Series use our patented AC Driverless LED REAC™ technology. They offer manufacturers the advantages of fast heat dissipation, self-cooling aluminum boards (TC temp must be confirmed), thermal conductivity, and high efficiency. Another of their standout features is their compact design with a wide range of sizes and options. It makes them perfect for multiple lighting applications, as you don't need external drivers. The Disc family was developed for use in a wide range of fixtures from pendants, up lighting, down lighting, wall sconce lighting and drum shapes to large high lumen surface mounts. They are ideal for commercial, residential or industrial applications. Because our Disc Series LED modules run on direct AC current, they offer you:

- Slim, simple and cost effective design
- Connect directly to AC, no external driver needed
- High system efficacy
- Low total life cycle cost
- Flicker free AC operation

**PRODUCT LINE (120V)**

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Notes:
- All LED Light Modules are available in 2700K, 3000K, 3500K, 4000K and 5000K
- Current models are 120VAC, 230VAC version coming soon
- All lumen output and light efficacy are measured at 3000K, 3500K, Tc = 65°C
- Optimal case temperature Tc = 65°C
- Storage temperature: -40°C ~ 80°C
- Operating temperature: -35°C ~ 65°C

**PERFORMANCE**
- 50,000 hours (B50L70@Tc=65°C)
- Lumen output ranging from 400lm to 800lm
- Color temperatures ranging from 2700K to 5000K.
- CRI 80+ (90+ available)
- Colour Consistency = 3 SDCM
- BJB push connectivity

**ELECTRICAL CHARACTERISTICS**
- Input voltage: 120VAC (230VAC coming soon)
- High power factor (>0.9) with no electrolytic capacitor or inductors
- Lower THD level is compatible with strict regulatory standards worldwide
- Over voltage, over temperature and input surge protection
- Compatible with current (ELV) reverse phase dimmers

**REGULATORY COMPLIANCE**
ETL
UL (under process)

**DETAILS**

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DISC SERIES - 5” & 12”

High Performance SMD
Direct AC LED Driverless Light Modules

Our ultra-compact, ultra-thin Disc Series use our patented AC Driverless LED REAC™ technology. They offer manufacturers the advantages of fast heat dissipation, self-cooling aluminum boards (TC temp must be confirmed), thermal conductivity, and high efficiency. Another of their standout features is their compact design with a wide range of sizes and options. It makes them perfect for multiple lighting applications, as you won’t need external drivers. The Disc family was developed for use in a wide range of fixtures from pendants, up lighting, down lighting, wall sconce lighting and drum shapes to large high lumen surface mounts. They are ideal for commercial, residential or industrial applications. Because our Disc Series LED modules run on direct AC current, they offer you:

- Slim, simple and cost effective design
- Connect directly to AC, no external driver needed
- High system efficacy
- Low total life cycle cost
- Flicker free AC operation

PERFORMANCE
- 50,000 hours (B50L70@Tc=65°C)
- Lumen output ranging from 600lm to 6000lm
- Color temperatures ranging from 2700K to 5000K.
- CRI 80+ (90+ available)
- Colour Consistency = 3 SDCM
- BJB push connectivity

ELECTRICAL CHARACTERISTICS
- Input voltage: 120VAC (230VAC coming soon)
- High power factor (>0.9) with no electrolytic capacitor or inductors
- Lower THD level is compatible with strict regulatory standards worldwide
- Over voltage, over temperature and input surge protection
- Compatible with current (ELV) reverse phase dimmers

REGULATORY COMPLIANCE
ETL
UL (under process)

DETAILS

LED Package
DIS02-601-830-120-S1
C - COB
S - SMD

Product Level
DIS02-601-830-120-S1
1 - medium
2 - high
3 - supreme
RING SERIES

High Performance SMD
Direct AC LED Driverless Light Modules

Our compact Ring Series use our patented AC Driverless LED REACT™ technology. Like all our engines and modules, they utilize direct AC power. They are designed for use in residential, industrial, or commercial lighting. Each of our Ring Series family is circular with a 5" opening in the center to work around standard mounting hardware required for today's octagon boxes. The Ring Series was created for, but not limited to, today's flush and semi-flush fixtures. Our Ring Series combine fast heat dissipation, self-cooling aluminum boards (TC temp must be confirmed) and excellent thermal conductivity with high light efficiency. Because there's no driver they offer you:

BENEFITS
- Slim, simple and cost effective design
- Connect directly to AC, no external driver needed
- High system efficacy
- Low total life cycle cost
- Flicker free AC operation

PRODUCT LINE (120V)

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Notes:
- All LED Light Modules are available in 2700K, 3000K, 3500K, 4000K, 5000K
- Current models are 120VAC, 230VAC version coming soon
- All lumen output and light efficacy are measured at 3000K, 3500K, Tc = 65°C
- Optimal case temperature Tc = 65°C
- Storage temperature : -40°C ~ 80°C
- Operating temperature : -35°C ~ 65°C

PERFORMANCE
- 50,000 hours (B50L70@Tc=65°C)
- Lumen output ranging from 800lm to 6000lm
- Color temperatures ranging from 2700K to 5000K
- CRI 80+ (90+ available)
- Colour Consistency = 3 SDCM
- BJB push connectivity

ELECTRICAL CHARACTERISTICS
- Input voltage: 120VAC (230VAC coming soon)
- High power factor (>0.9) with no electrolytic capacitor or inductors
- Lower THD level is compatible with strict regulatory standards worldwide
- Over voltage, over temperature and input surge protection
- Compatible with current (ELV) reverse phase dimmers

REGULATORY COMPLIANCE
ETL
UL (under process)

DETAILS
LED Package
RIG02-162-830-120-S1
C - COB
S - SMD

Product Level
RIG02-162-830-120-S1
1 - medium
2 - high
3 - supreme
O-RING SERIES

High Performance SMD
Direct AC LED Driverless Light Modules

Our compact and very cost-effective O-Ring Series use our patented AC Driverless LED REAC™ technology. Like all our engines and modules, they utilize direct AC power. Designed for use in residential, commercial or industrial lighting. The O-Ring compliments the RING series with less PC board. This reduces costs and leaves designers the option of using multiple O-Ring modules in a single fixture, spaced accordingly. All our AC Driverless LED Modules offer manufacturers the advantages of fast heat dissipation, self-cooling aluminum boards (TC temp must be confirmed), thermal conductivity, and high light efficiency. Another of the standout features they offer to manufacturers is the flexibility in designing new products. As well as easy installation into existing products and field removability. Because our O-Ring Series LED modules run on direct AC current, they offer you:

- Slim, simple and cost effective design
- Connect directly to AC, no external driver needed
- High system efficacy
- Low total life cycle cost
- Flicker free AC operation

PRODUCT LINE (120V)

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Notes:
- All LED Light Modules are available in 2700K, 3000K, 3500K, 3500K, 4000K and 5000K
- Current models are 120VAC, 230VAC version coming soon
- All lumen output and light efficacy are measured at 3000K, 3500K, Tc = 65°C
- Optimal case temperature Tc = 65°C
- Storage temperature: ± 40°C ~ 80°C
- Operating temperature: ± 35°C ~ 65°C
LINEAR SERIES
High Performance SMD
Direct AC LED Driverless Light Modules

Our ultra-slim Linear Series use our patented AC Driverless LED REAC™ technology. Like all our engines and modules, they utilize direct AC power. Because our linear modules are available in many different lengths, you’re sure to be able to use them in multiple applications, including but not limited to commercial troffers, parkade enclosed strips, wall sconces and bathroom vanity fixtures. Another of their standout features is their small compact design and self-cooling aluminum boards (TC temp must be confirmed). It makes them perfect for any form of linear lighting you want to design, whether it’s for commercial, residential or industrial applications. Because our LED modules run on direct AC current, they offer you:

- Slim, simple and cost effective design
- Connect directly to AC, no external driver needed
- High system efficacy
- Low total life cycle cost
- Flicker free AC operation

PRODUCT LINE (120V)

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PERFORMANCE
- 50,000 hours (BS0L70@Tc=65°C)
- Lumen output ranging from 400lm to 2400lm
- Color temperatures ranging from 2700K to 5000K.
- CRI 80+ (90+ available)
- Colour Consistency = 3 SDCM
- BJB push connectivity

ELECTRICAL CHARACTERISTICS
- Input voltage: 120VAC (230VAC coming soon)
- High power factor (>0.9) with no electrolytic capacitor or inductors
- Lower THD level is compatible with strict regulatory standards worldwide
- Over voltage, over temperature and input surge protection
- Compatible with current (ELV) reverse phase dimmers

REGULATORY COMPLIANCE
ETL
UL (under process)

DETAILS

LED Package
LIN04-801-830-120-S1
C - COB
S - SMD

Product Level
LIN04-801-830-120-S1
1 - medium
2 - high
3 - supreme

Notes:
- All LED Light Modules are available in 2700K, 3000K, 3500K, 3500K, 4000K and 5000K
- Current models are 120VAC, 230VAC version coming soon
- All lumen output and light efficacy are measured at 3000K, 3500K, Tc = 65°C
- Optimal case temperature Tc = 65°C
- Storage temperature : -40°C ~ 80°C
- Operating temperature : -35°C ~ 65°C
LINEAR-HO SERIES

High Performance SMD
Direct AC LED Driverless Light Modules

Our ultra-slim Linear HO Series offers enhanced high lumen output in smaller compact designs. They are perfect for when you need lighting with higher levels of illumination in compact lighting designs. Of course, they also use our patented AC Driverless LED REAC™ technology. So, like all our engines and modules, they utilize direct AC power. Because our Linear HO engines are available in many different lengths, you’re sure to be able to use them in multiple applications including but not limited to up lighting, wall sconces and bathroom vanity luminaires. Because our LED modules run on direct AC current, they offer you:

PERFORMANCE
- 50,000 hours (B50L70@Tc=65°C)
- Lumen output ranging from 400lm to 2500lm
- Color temperatures ranging from 2700K to 5000K.
- CRI 80+ (90+ available)
- Colour Consistency = 3 SDCM
- BJB push connectivity

ELECTRICAL CHARACTERISTICS
- Input voltage: 120VAC (230VAC coming soon)
- High power factor (>0.9) with no electrolytic capacitor or inductors
- Lower THD level is compatible with strict regulatory standards worldwide
- Over voltage, over temperature and input surge protection
- Compatible with current (ELV) reverse phase dimmers

REGULATORY COMPLIANCE
ETL
UL (under process)

DETAILS

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Notes:
- All LED Light Modules are available in 2700K, 3000K, 3500K, 3500K, 4000K and 5000K
- Current models are 120VAC, 230VAC version coming soon
- All lumen output and light efficacy are measured at 3000K, Tc = 65°C
- Optimal case temperature Tc = 65°C
- Storage temperature: -40°C ~ 80°C
- Operating temperature: -35°C ~ 65°C