

Easy Installation

All-in-one LED bulb with built-in cooling fan and drive unit

341HLB2

Design registration applied for



LED Head Lamp Bulb X2

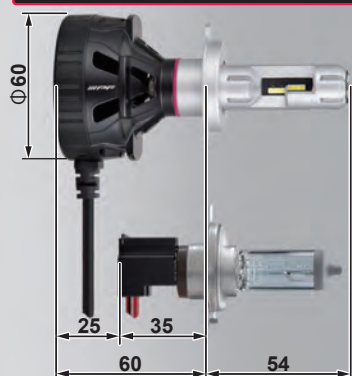


LED H4 ALL-IN-ONE

Comparison with conventional product
Improved light output

High beam **129%** Low beam **136%**

Compare dimensions



Total flux/Lumen

High beam

5400lm

Low beam

3800lm

Hybrid vehicles compatible

Start-stop system compatible

Input voltage 12V/24V

Built-in High beam indicator lighting circuit



Contact information: IPF TRADING

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Newly developed LEDs and the three all-new technology

Pursuing the ideal of performance LED conversion kits

Key point 1

- Ensures improved visibility in adverse weather
- Offering a proper beam pattern and bright illumination
- New X2 series bulbs deliver all time high lighting performance

Key point 2

- Developed the next generation LEDs in conjunction with LED chip manufacturer
- Optimized configuration and size of light-emitting face can deliver evenly produced beam pattern and improved brightness
- Improved road visibility for distance and width without loss of LED light

Introduction of the three all-new technology

Technology 1 "Dual CPS -Dual Copper Post Structure- (Patented)"

- Employs copper substrate prepared by a patented technology "Dual CPS"
- Copper is an excellent material for heat release and contributing a longer product lifetime
- "Dual CPS" ensures most efficient heat release from LEDs to heat sink
- IPF's original patented technology delivers an ideal operating environment for LEDs

Technology 2 "Highly Heat Conduction & Release Structure"

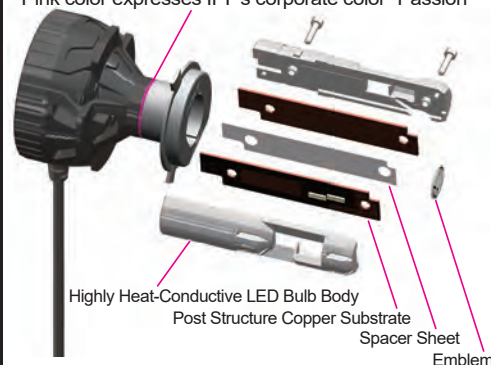
- Using highly heat-conductive Aluminum die cast alloy allows unique heatsink design
- Optimized heatsink incorporates A6063 Aluminum die cast alloy & extrusion molding
- X2 Series bulbs deliver enhanced heat release performance & optimum heatsink shape design

Technology 3 "LACH -LED Air Cooling Hole- (Patented)"

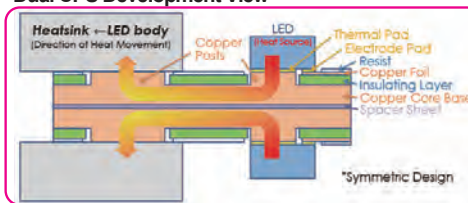
- Newly added Air Cooling Hole provides additional flow of air to LED chips
- Improved heat release performance because of supersized LED circuit board (460% larger from previous model)



O-Ring
Pink color expresses IPF's corporate color "Passion"



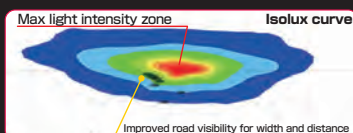
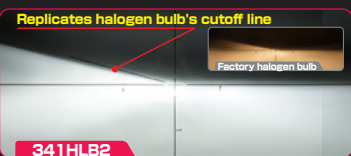
Dual CPS Development View



Improved noise-reducing technology, "SEPIC" system delivers long-lasting and downsized drive unit

- "Single Ended Primary Inductor Converter" offers several technology merits
- Miniaturization of electronic circuits
- High level of noise reduction
- Using quality hybrid condenser and three-terminal noise filter etc.

*Single Ended Primary Inductor Converter



Improved road visibility for width

Compare road visibility



Part No.	Product name	Spec	Color Temperature	Lumens
341HLB2	LED Head lamp bulb X2 All-in-one H4 12/24V 6500K	LED H4 12V-24V 36/32W	6500K	High : 5400 lm* Low: 3800 lm*
Package size : H.150mm x W.155mm x D.100mm				

*Two bulbs

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