

# Performance upgrades top R&D agenda

## Typical features

- **Coating:** Some units have surfaces treated with a special coating that reflects IR radiation from the filament back to it, allowing the bulb to produce more light for the same amount of energy.



- **Cover:** Models come with a quartz or an aluminosilicate glass envelope, depending on the type of halogen gas adopted. The former can withstand temperatures up to 900 C. Aluminosilicate glass covers, meanwhile, are common in bulbs with rated power not exceeding 120W. Most halogen lamp makers source pre-cut cylindrical tubes from local suppliers.

- **Filament:** Made of tungsten, this wire comes in an axial or transverse orientation. Double-ended lamps generally adopt the former, while single-ended types have an axial or transverse filament depending on their application.

- **Base:** Various configurations are available, with E26 and E27 types the most popular. Most come in plastic, aluminum or aluminum alloy.

Price range (per unit)	Basic features
Below \$0.17	<40W; <10 lm/W; 1,500hr service life
\$0.18 to \$0.35	40 to 60W; 10 to 15 lm/W; 1,500 to 3,000hr service life; CE
\$0.36 to \$1	>60W; 15 lm/W; >3,000hr service life; CE, TÜV, RoHS

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## Top trends

- **Wider selection:** Halogen bulb makers are expanding selections to reach more markets. Capitalizing on the product's inherent brightness and color rendering capability, many are releasing models for illuminating offices, factories, supermarkets, railway stations, airports and other public areas.
- **Greater efficiency:** At several companies, R&D efforts are geared toward boosting luminous efficacy to enhance the competitiveness of their models in target segments. New 18W bulbs can generate 12.2 lm/W, allowing these to replace 25W units released two years ago.
- **Enhanced durability:** For improved reliability and longevity, shatter-resistant glass is employed in more releases.
- **Price forecast:** Quotes are expected to increase 5 to 10 percent in coming months, driven by higher production outlay and the appreciation of the yuan.
- **Sales projection:** Export revenue is anticipated to grow at least 10 percent in 2012.

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### [Changzhou Aladdin Lighting & Electric Co. Ltd](#)

★★★★★

**Model:** AEH-A60

**Description:** 1,500 to 2,000hr service life; E27 or B22 base; ErP

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### [Jinhua Dongsheng Trade Co. Ltd](#)

★★★★★

**Model:** GLS 40W Clear B22

**Description:** 2,800K; 1,500hr service life; aluminum G9 base; class C rating; CE, RoHS, TÜV

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### [Jiangsu Haiya Trade Co. Ltd](#)

★★★★★

**Model:** HS-010

**Description:** 300W; 120V; 7,800 lumens; 3,400K; 75hr service life; GX6.35 base

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### [Linyi Yuhang Lighting Electric Appliance Co. Ltd](#)

★★★★★

**Model:** UHI-21C-28W

**Description:** 28W; 0.12A; 300 to 360 lumens; 12.1 lm/W; E27 or B22 base

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### [Ningbo Solars Lighting Electrics Co. Ltd](#)

★★★★★

**Model:** J118

**Description:** R7S base; for indoor and outdoor lighting

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### [Shanghai Wellmax Lighting Industry Co. Ltd](#)

★★★★★

**Model:** JDR

**Description:** 10, 20, 35, 50 or 75W; 2,800 or 4,200K

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