

**PHILIPS**

LED lamps

**REAL  
PROs  
REAL  
QUALITY**

Real pros help  
**customers realize  
ultra energy savings**

Introducing the Philips MASTER Ultra Efficient range  
– our most energy efficient LED lamps yet



# Are your customers worried about their energy costs?

With energy costs going through the roof, many companies are more aware of their energy consumption than ever. Lighting on average represents up to 25% of electricity consumption in buildings<sup>1</sup>, so there is much to gain.

**Did you know there is great potential to save energy, even if you already have LED lights?**

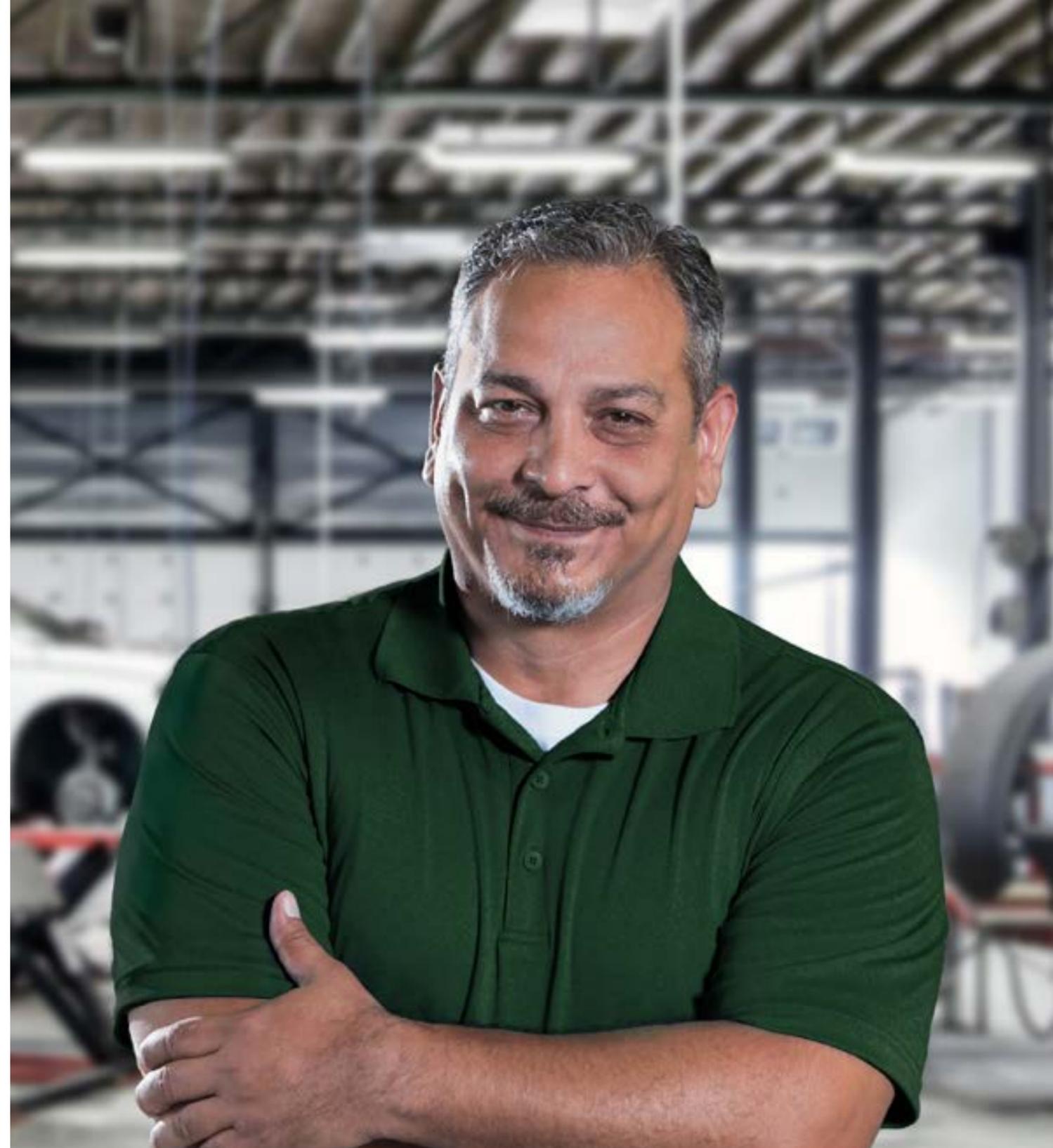
## Meet our most energy efficient LED lights yet

Thanks to a great technology breakthrough, Philips Ultra Efficient LED bulbs, candles, spots and tubes allow your customers to immediately save over 44% energy compared with standard LED alternatives<sup>2</sup>.

The investment pays itself back in four months depending on the selected product. Not only does this allow for important savings, switching to ultra efficient LEDs also contributes to improved sustainability.

<sup>1</sup> According to Signify modeling and market intelligence data

<sup>2</sup> Compared with Philips standard LED equivalent product for LED Lamps and LED Tubes.



**Start saving energy and money now! Visit [www.philips.com/ultraefficientprof](http://www.philips.com/ultraefficientprof) for more information**

# MASTER LEDbulbs and LEDcandles Ultra Efficient



Ultra Efficient lamps for ultra energy savings



## Unbeatable arguments for your customers

- Ultra efficient with up to 210 lm/W
- Saves up to 50-60% in energy costs compared to standard LED bulbs and candles<sup>1</sup>
- Ultra long lifetime of 50,000 hours – more than 3.5x longer than standard LED bulbs and candles
- Less than 4 months payback time compared with conventional halogen bulbs and candles
- 5 year warranty



## More reasons to upgrade

- Full glass design – heritage look and feel that customers like
- Very high-quality and comfortable light
- No flicker, reduced glare, CRI 80
- Perfect solution for offices, residential, and hospitality applications
- Available in full range, from 40W to 100W replacement

## Product highlights

Innovative new features pioneering sustainable lighting.

### Thermal

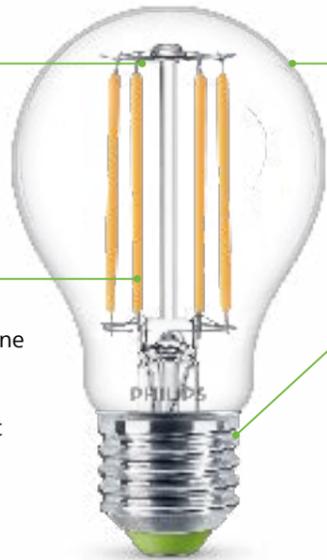
- Optimized filament position for better thermal control

### Optics

- Filament orientation designed for most efficient light output

### LED design

- High-efficiency phosphor
- Optimally balanced color point (CRI 80) in line with EU Ecodesign light source regulation
- Industry-leading LED chip for most efficient conversion of input power into light output



### Driver upgrade

- Optimization of driver architecture and component design to improve efficiency
- More compact size to fit into E-cap

## Payback before you know it

When upgrading from conventional bulbs, your customers can expect a full return on investment in only 4 months. A typical restaurant will save 2253 Euro per year by replacing 50 x 42W conventional LED bulbs with 4W Ultra Efficient LED bulbs<sup>1</sup>.

	Standard LED bulb <sup>2</sup>	A-class LED bulb	Halogen bulb	A-class LED bulb
Lifetime	15,000 hrs >	50,000 hrs	2,000 hrs >	50,000 hrs
Lamp wattage	9W >	4W	42W >	4W
Total savings/year		277 €		2,253 €
Payback period		1.3 years		0.3 years

Number of lamps	50	Energy costs	0.29 €/kWh	Lamp cost/year	0.73 €	Total costs/year/lamp	2.60 €
Burning hours per year	3600 hrs <sup>3</sup>	Replacement cost/year/lamp	0.14 €	Energy costs/year/lamp	1.73 €		

Compared with a standard LED bulb, a Philips LED bulb UE can reduce CO<sub>2</sub> emissions by up to 105 kg over its lifetime.<sup>4</sup> This is the equivalent to the emissions absorbed by more than 4 trees!<sup>5</sup>

Compared with a halogen bulb, a Philips LED bulb UE can reduce CO<sub>2</sub> emissions by up to 678 kg over its lifetime.<sup>4</sup> This is the equivalent to the emissions absorbed by more than 36 trees!<sup>5</sup>

<sup>1</sup> Calculation for a typical small restaurant based on 50 x 42W halogen bulbs with a lifetime of 2000 hours vs 50 x 4W Ultra Efficient LED bulbs with a lifetime of 50,000 hours; 0.2 Euro energy cost/hour; 2 Euro replacement cost per lamp; 3600 burning hours per year.  
<sup>2</sup> Standard LED bulb refers to Philips LED classic 60W A60 E27.  
<sup>3</sup> Energy use. Based on 12 hrs burning per day, 300 days per year.  
<sup>4</sup> Calculation based on CO<sub>2</sub> gas emissions of 0,42 kg/kWh.

## Order information

Product type	Bulb shape	Socket	Bulb finish	Power	Lumen output	Efficacy	CRI	Color temp.	Lifetime	EEL	EOC code
				W	lm	lm/W		K	hrs		8719514
MAS LEDBulbND2.3-40W E27 830 A60 CLG EELA	A60	E27	Clear Glass	2.3	485	210	80	3000	50,000	A	42073100
MAS LEDBulbND2.3-40W E27 840 A60 CLG EELA								4000			42075500
MAS LEDBulbND4-60W E27 830 A60 CLG EELA								3000			42077900
MAS LEDBulbND4-60W E27 840 A60 CLG EELA			4000	42079300							
MAS LEDBulbND4-60W E27 830 A60 FR G UE			3000	43579700							
MAS LEDBulbND4-60W E27 840 A60 FR G UE			4000	43581000							
MAS LEDBulbND7.3-100W E27 830 A70 FRG UE	A70	E27	Frosted Glass	7.3	1535	210	80	3000	50,000	A	43583400
MAS LEDBulbND7.3-100W E27 840 A70 FRG UE								4000			43585800
MAS LEDBulbND5.2-75W E27 830 A70 CLG UE								3000			43587200
MAS LEDBulbND5.2-75W E27 840 A70 CLG UE			4000	43589600							
MAS LEDBulbND7.3-100WE27 830 A70 CLG UE			3000	43591900							
MAS LEDBulbND7.3-100WE27 840 A70 CLG UE			4000	43593300							
MAS LEDCandleND2.3-40W E14 830 B35 CLG UE	B35	E14	Clear Glass	2.3	485			3000			43595700
MAS LEDCandleND2.3-40W E14 840 B35 CLG UE								4000			43597100

<sup>1</sup> Standard LED bulb refers to Philips LED classic 60W A60 E27

# MASTER LEDtube Ultra Efficient T8



## Unbeatable arguments for your customers

- Saves up to 44% in energy costs compared to standard LED tubes<sup>1</sup>
- Ultra long lifetime of 100,000 hours – more than 3x longer than standard LED tubes
- Less than 5 months payback time compared with fluorescent tubes
- 10 year warranty

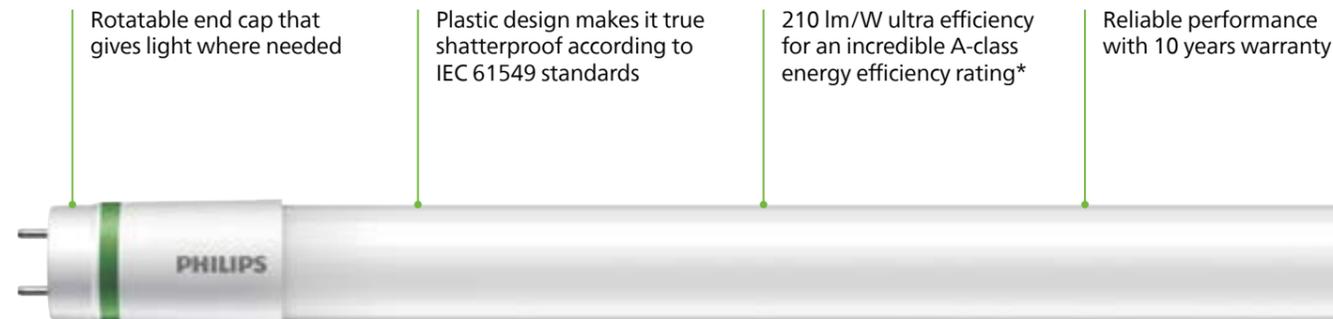


## Sustainability meets profitability

With Philips MASTER LEDtube Ultra Efficient you can offer your customers an innovative and value-adding product to minimize their energy consumption. And although Ultra Efficient LED tubes require less maintenance and replacement, the higher investment of your customer will give you a higher profit per light point!

## Product highlights

The Philips MASTER LEDtube Ultra Efficient offers all the benefits of LED lighting – and more.



<sup>1</sup> 'Standard LED tubes' refers to Philips CorePro LEDtube EM/mains Ultra Output operating on direct mains

## Cost and CO<sub>2</sub> savings right from the start

When upgrading from fluorescent tubes, your customers can expect a full return on investment in only 5 months. A typical small warehouse will save 13,661 Euro by replacing 100 x 58W fluorescent tubes with 17.6W Ultra Efficient A-class LED tubes.<sup>1</sup>

	Standard LED tube <sup>2</sup>	MASTER LEDtube UE	Fluorescent tube	MASTER LEDtube UE
Lifetime	30,000 hrs >	100,000 hrs	20,000 hrs >	100,000 hrs
Lamp wattage	31.5W >	17.6W	58W >	17.6W
Total savings/year		3,544 €		13,661 €
Payback period		1.5 years		0.4 years

Number of lamps	100	Energy costs	0.29 €/kWh	Lamp cost/year	4.65 €	Total costs/year/lamp	49.80 €
Burning hours per year	8760 hrs <sup>3</sup>	Replacement cost/year/lamp	0.44 €	Energy costs/year/lamp	44.71 €		

Compared to a fluorescent tube, a new Philips MASTER LEDtube UE can reduce CO<sub>2</sub> emissions by up to 2,285 kg over its lifetime<sup>4</sup> – equivalent to the emissions absorbed by more than 103 trees<sup>5</sup>.

Compared to a standard LED tube, a new Philips MASTER LEDtube UE can reduce CO<sub>2</sub> emissions by up to 584 kg over its lifetime<sup>4</sup> – equivalent to the emissions absorbed by more than 26 trees<sup>5</sup>.

<sup>1</sup> Calculation for a typical warehouse based on 100 x 58W fluorescent lamps with a lifetime of 20,000 hours vs 100 x 17.6W Ultra Efficient A-class LED tubes with a lifetime of 100,000 hours; 0.29 Euro energy cost/hour; 5 Euro replacement cost per lamp; 8760 burning hours per year.

<sup>2</sup> Standard LED tube refers to Philips CorePro LEDtube EM/mains Ultra Output operating on direct mains.

<sup>3</sup> Energy use. Based on 24 hrs burning per day, 365 days per year.

<sup>4</sup> Calculation based on CO<sub>2</sub> gas emissions of 0.42kg/kWh.

<sup>5</sup> Based on multiple scientific literature, an average fully grown tree can absorb 22 kg CO<sub>2</sub> per year.

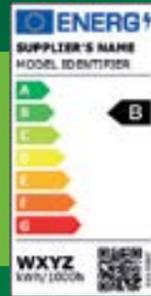
## Order information

Product type	Power	Lumen output	Efficacy	Beam angle	CRI	Color temp.	Lifetime	EEL	EOC code
	W	lm	lm/W			K	hrs		8719514
MAS LEDtube 1200mm UE 11.9W 840 T8 EELA	11.9	2500	210	160°	80	4000	100,000	A	43166900
MAS LEDtube 1500mm UE 17.6W 840 T8 EELA	17.6	3700							43168300

# MASTER LEDspot Ultra Efficient GU10



Ultra Efficient lamps for ultra energy savings



## Unbeatable arguments for your customers

- Saves up to 50% in energy costs compared to standard LED spots<sup>1</sup>
- Ultra long lifetime of 50,000 hours – more than 3x longer than standard LED spots
- Less than 3 months payback time compared with conventional halogen spots
- Compared to a halogen spot, an Ultra Efficient LED spot can reduce CO<sub>2</sub> emissions by up to 999 kg over its lifetime - equivalent to the emissions absorbed by more than 45 trees<sup>2</sup>
- 5 year warranty



## Product highlights

The Philips MASTER LEDspot Ultra Efficient GU10 is a true breakthrough on the way to more sustainable lighting.

### LED design

- Special LED design with compact size fit for small size spot lights
- High efficiency phosphor
- Best LED system integration design to enable highest driver and optical efficiency

### Thermal

- Excellent thermal management system for ultra long lifetime of up to 50,000 hours



### Optics

- Special lens design to optimise light output efficiency

### Driver

- Revolutionary driver design boosts energy efficiency, dramatically reducing power consumption.

## Cost and CO<sub>2</sub> savings right from the start

When upgrading from halogen spots, your customers can expect a full return on investment in only 2.5 months. A typical small shop will save 1773 Euro by replacing 100 halogen spots (50 W) with the Ultra Efficient ones<sup>1</sup>.

	Standard LED spot <sup>2</sup>	MASTER LEDspot UE	Halogen Spot	MASTER LEDspot UE
Lifetime	15 000 hrs	50 000 hrs	2000 hrs	50 000 hrs
Lamp wattage	4.6 W	2.4 W	50 W	2.4 W
Total savings/ year		384 €		7771 €
Payback period		3.4 years		0.2 years

Number of lamps	100	Energy costs	0.29 €/kWh	lamp cost/ year	1.63 €	Total costs/ year/ lamp	5.45 €
Burning hours per year	4800 hrs <sup>3</sup>	Replacement cost/ year/ lamp	0.48 €	Energy costs/ year/ lamp	3.4 €		

Compared to a halogen GU10, a new Philips MASTER LEDspot Ultra Efficient GU10 can reduce CO<sub>2</sub> emissions by up to 999 kg over its lifetime<sup>4</sup> – equivalent to the emissions absorbed by more than 45 trees<sup>5</sup>.

Compared to a standard LED spot, a new Philips MASTER LEDspot Ultra Efficient GU10 can reduce CO<sub>2</sub> emissions by up to 42.6 kg over its lifetime<sup>4</sup> – equivalent to the emissions absorbed by more than 2 trees<sup>5</sup>.

<sup>1</sup> Calculation for a typical small shop based on 100 x 50W halogen GU10 with a lifetime of 2,000 hrs vs 100 x 2.4W MASTER LEDspot UE GU10 with a lifetime of 50,000 hrs, 0.29 Euro energy cost/hour, 5 Euro replacement cost per lamp, 4800 burning hours per year.  
<sup>2</sup> Standard LED spot refers to Philips LEDspot GU10 50W.  
<sup>3</sup> Energy use based on 16 hrs burning per day, 300 days per year.  
<sup>4</sup> Calculation based on CO<sub>2</sub> gas emissions of 0,42 kg/kWh.  
<sup>5</sup> Based on multiple scientific literature, an average fully grown tree can absorb 22 kg CO<sub>2</sub> per year.

## Order information

Product type	Bulb shape	Cap	Power	Lumen output	Replaced wattage	CRI	Color temp.	Lifetime	EEL	EOC code
			W	lm	W		K	hrs		8719514
MAS LED spot UE 2.4-50W GU10 ND 830 EELB	PAR16	GU10	2.4	380	50	80	3000	50,000	B	42174500
MAS LED spot UE 2.4-50W GU10 ND 840 EELB							4000			42178300

<sup>1</sup> Standard LED spot refers to Philips LEDspot GU10 50W

<sup>2</sup> Check cost and CO<sub>2</sub> savings information on the next page for more details



Signify, previously known as Philips Lighting, is the world leader in connected LED lighting systems, software and services. We proudly market the best lighting brands in the world, including Philips and Interact.

## PHILIPS

The Philips brand stands for quality and energy-efficiency in light. For over 125 years, Philips products have been at the forefront of innovation. Today Philips is recognized as the leading brand in lighting.

## interact

Interact is the brand of our IoT software and platform that manages smart lighting systems and the data that those systems collect. Smart, simple and scalable, Interact software can be used in a wide range of application areas, from small offices to entire cities.

**We aim to help you work faster, better, smoother.  
How? Check:**

# Brighter lives, better world

Signify is 100% carbon neutral since September 2020.

We recycle up to 90% of our manufacturing waste.

We use 100% renewable electricity.

Our paper packaging for LED lamps and luminaires is saving over 500,000 kilos of plastic waste per year.

**Thank you for choosing Philips products offered by Signify and joining us on our mission!**

## You and Signify – a reliable partnership

Close cooperation before, during and after projects is important to us. Our loyal service teams make sure you always get the competent support and information you need.

We are closely working with local wholesalers to offer you flexible and on-time delivery – and product availability you can rely on to help you stay on top of your game the [Signify Lighting Academy](#) offers a comprehensive range of educational resources for you to grow your expertise and get certified.



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