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Introduction



Akai Energy - The Future Leader In Lighting

Akai Energy lighting applications are designed and manufactured as per the highest standards of the lighting industry as well ensuring environmental friendly process. Akai-energy is committed to technology expertise, building long term relationship with our business associates, customers and employees with the right business ethics.



The Future

Akai Energy-the Brand Promise "Enhance Your Life"

We promise to enhance the performance and well being of the people by adapting to the changing needs of the Consumer in all sources of lighting efficiently and effectively and creating minimal impact on the environment.

Product Range

LED Lamp



5/7/10W



15W



3W

CFL (U type) Lamp



3U E27



3U B22



3U E14

CFL Mini (4U type & Full Spiral) Lamp



4U E27



E27 Full Spiral



4U B22

CFL (Half Spiral) Lamp



B14 Spiral



B22 Spiral



E27 Spiral

Halogen & LED Decoration Lamp



Halogen Lamp



4W LED Spotlight



5W LED Spotlight

Candle Lamp & Fluorescent Lamp



Halogen
Candle Lamp



Incandescent
Candle Lamp



Fluorescent Lamp

LED Lamp



High color rendering Index
Emits the most accurate and natural light, minimize eye-dazzling

High Illumination
Brightness & Efficiency is 6.5W are remarkably increased
Low Power consumption & Energy Saving
Save %72 energy less than CFL 25w and %90 less than incandescent lamp

Long Life Time
More than 50 times of incandescent lamp, 10 times of CFL

Why LED Lighting

▪ Long Service Life

LED has longer lifetime compared to conventional lighting. LED will last up to 10 years, therefore replacing them is not needed frequently

▪ Low Energy Consumption

Save upto %80 power usage by replacing a conventional lighting with LED lighting. Electric fee- and changing rates of the light are reduced therefore maintenance costs can be decreased.

▪ Environment- friendly light source

LED lighting has no toxic materials and it does not pollute the environment. Also the emission rate of CO₂ is 7/1 of an incandescent light.

▪ Athermancy and no IR & UV

LED lighting produces less heat than the conventional lighting. LED is operating less than 60°C. There is no UV or IR in the light beam of LED bulbs, making it suitable for illuminating heat- sensitive objects such as clothes and paintings.



LED Lamp



10/7.5W



15W



3W



- Super energy-saving design.
- Waterproof & dustproof (IP55 protection class).
- High transmittance PC lamp, high light transmittance.
- Overheat protection circuit.
- Environmental protection, energy saving & no radiation.
- 40,000 Hrs life time.
- Chip from NICHIA, JAPAN
- Strong heat radiating capability.
- High quality driving power chip for stable lighting.
- Humanism Design.
- Low Carbon and environment-friendly.
- Enhanced photoelectric conversion efficiency.
- 20,000 Hrs life time.
- Chip from TAIWAN

Applications

Very suitable for illumination at home, clubs, stores, hotels, restaurants, gyms, airports, office buildings, factories, etc

Model	LED Chip	Base	Voltage[V]	Watt[W]	Lumens[lm]	Color	Life [Hrs]	Beam Angle [Degree]	Packing
HLE5-D	Nichia	E27	240-185	5	320	Day Light	40000	270	Carton
HLE7-D	Nichia	E27	240-185	7	485	Day Light	40000	270	Carton
HLE10-D	Nichia	E27	240-185	10	810	Day Light	40000	270	Carton
HLE15-D	Nichia	E27	240-185	15	1800	Day Light	40000	270	Carton
DLO3L	Taiwan	E27	2240-20	3	265	Day Light	20000	-	Carton

LED Spotlight



DE04S



- 4W Single LED Spot light
- Strong heat radiating capability
- Low energy consumption
- Robust against vibrations
- No UV and near-IR radiation in the light beam
- Extremely long life

DE05S



- 5W 3LED Spot light
- Strong heat radiating capability
- Low energy consumption
- Robust against vibrations
- No UV and near-IR radiation in the light beam
- Extremely long life

Applications

Very suitable for illumination at home, Clubs, Hotels, Exhibition Halls, Gyms, Airports, Office buildings & Factories.

Model	Base	Watt (W)	Volt (V)	Frequency (Hz)	Color (K)	Beam Angle (Degree)	Life (Hrs)	Pcs/Ctn	Packing
DE04S	G5.3	4	12	560/0	4000	25	30000	100	Carton
DE05S	G5.3	5	12	560/0	4000	25	20000	100	Carton

Halogen Dichroic Lamp



A halogen lamp is a special type of incandescent lamp. The light is more consistent, lifetime are long and its small size makes it easy to control light .



- Dichroic coated reflector providing cool light beam.
- Front glass safeguards the lamps and prevents from touchings and deposits.
- Constant light output, remains bright and shining over lifetime.
- Excellent color rendering (Ra=100) and long life.
- Universal burning positions.
- Dimmable.

Applications

Ideally suitable for accent, task and decorative lighting in shops, stores hotels & restaurants, Building exteriors, playgrounds, traffic facilities.

Model	Watt (W)	Cap	Voltage (V)	Beam Angle (Degree)	CCT (K)	Life (Hrs)	Diameter (mm)	Pcs/Ctn	Packing
HL50D	50	G5.3	12	38	Warm	2000	φ 51	200	Carton



Energy Saving Solution

LED Lamp		%80	U Type		%80	Spiral		%80
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Frequently Asked Questions on CFL Bulbs

What are Compact Fluorescent Light Bulbs?

CFL stands for Compact Fluorescent Light. We all know fluorescent lights, those long tubes that are used at work and in stores. In Compact Fluorescent Light bulbs, the long tubes are folded back and forth until they're about the size of a regular incandescent light bulb so that they can be used in your regular fixtures. No changes need to be made to your lamps to use them since the ballast and other electronics are incorporated into the base of the bulb. However, CFLs cannot be used everywhere regular incandescent bulbs are used and special bulbs are needed for certain special applications.

How do CFLs work?

Regular incandescent bulbs produce light by passing a current through a thin conductor called a filament. This causes the filament to get so hot that it glows white, giving off light. Think of an electric stove and how you can see the metal heating elements glow red when a current passes through them. Incandescent bulbs are similar but the filament gets much, much hotter. To get the filament to glow white, it needs to be very hot so that most of the electric energy is used to make heat, not produce light. In fact incandescent bulbs are only about 6% efficient. CFLs work the same way as a fluorescent light works. The bulb is filled with a gas that gives off UV rays when excited by an electric signal. The UV rays then hit a phosphor coating on the inside of the bulbs causing it to glow and give off light. Since heat isn't needed, these bulbs are much more efficient than incandescent, typically taking $\frac{1}{4}$ of the energy to produce the same amount of light.



What are the benefits of CFLs?

CFLs have three huge benefits over incandescent. The first is power savings. With a CFL, you will use about 75% less electricity to get the same amount of light compared to an incandescent bulb. The second benefit is that CFLs last up to 10 times longer than incandescent bulbs. This savings adds up very quickly, saving you \$30 or more for each bulb you replace over the life of the bulb. And third, CFLs are also environmentally friendly. Using just one CFL will reduce the amount of CO2 going into the air by almost 700 lbs over the lifetime of the bulb. According to the government's EnergyStar website "If every American home replaced just one light bulb with an EnergyStar qualified bulb, we would save enough energy to light more than 3 million homes for a year, more than \$600 million in annual energy costs, and prevent greenhouse gases equivalent to the emissions of more than 800,000 cars." These are big numbers and with a payback period of 4 months, it doesn't make sense not to start using CFLs.

Where do CFLs work best?

It doesn't make sense to replace all of your light bulbs with CFLs. You should only use CFL bulbs in lamps that are on about 3 hours or more a day and on more than 15 minutes at a time.* Lamps that are turned on and off frequently

Where are CFLs NOT a good choice?

- * Lamps that are subjected to vibration
- * Lamps that you do not use frequently
- * Lights on dimmers (see section on dimmable CFLs)
- * Recessed fully enclosed lights, since CFLs may get too hot
- * Open outside fixtures (enclosed outside fixtures are OK)
- * Lights on timers

Fluorescent bulbs have been around for years — why are CFLs getting popular now?

Until recently the technology didn't exist to make the folded shape of the CFL, though we did have small donut shape rings and some other shapes. These were expensive and didn't fit into many lamps. The new CFL bulbs are about the same size as the incandescent bulb they are replacing.

What is Equivalent Wattage?

CFL bulb 'brightness' is often stated in terms of the Equivalent Wattage of an incandescent bulb. For example, a 60W incandescent bulb gives off about 800 lumens (an optical power measurement), however these bulbs are usually referred to by their electrical power (60W in this case) instead of optical power. The table below gives some common examples. Note that the CFL Wattage is typical only 25% of the Equivalent Wattage- a big power savings for the same brightness!

	Incandescent Bulb Wattage	CFL Wattage	Minimum Light Output(lumens)
	40W	9-13W	450
	60W	13-15W	800
	75W	18-25W	1100
	100W	23-30W	1600
	150W	30-52W	2600

What Does CFL Color Mean?

CFLs are available in two different color "shades". The number in parentheses shows the approximate 'color temperature' for reference. See below for more information on color temperature.

- * Warm – Yellowish white light (2700K)
- * Daylight – Like daylight through a window (~6500K)

Most regular incandescent bulbs have a 'warm' light and would be replaced by a "warm" CFL (2700K). You can also use 'daylight' bulbs for a whiter light. In general, the 'warm' lights highlight the red tones in the room and the 'daylight' bulbs will bring out more of the blue tones.

CFL-U type Lamp



[Save 80% of the power consumption compared with incandescent lamps].

Lighting up instantly without flicker.

Long life
[span more than 8,000 ~ 10,000 hrs.]

High efficiency
Low heat emission





CFL-U type Normal



Warm Light

Day Light



2U E27



3U B22



2U E14



3U E27



3U E27



5U E27

Model	Type	Volt[V]	Watt[W]	Holder	Frequency [Hz]	Colour	Life [Hrs]	Pcs/Box	Pcs/M.Box	Pcs/Ctn
CU08ED	2U	220-240	8	E27	50/60	Day Light	10000H	1	10	50
CU08EW	2U	220-240	8	E27	50/60	Warm Light	10000H	1	10	50
CU10ED	3U	220-240	10	E27	50/60	Day Light	10000H	1	10	50
CU10EW	3U	220-240	10	E27	50/60	Warm Light	10000H	1	10	50
CU12EW	3U	220-240	12	E27	50/60	Warm Light	10000H	1	10	50
CU12ED	3U	220-240	12	E27	50/60	Day Light	10000H	1	10	50
CU12CD	3U	220-240	12	E14	50/60	Day Light	10000H	1	10	50
CU12CW	3U	220-240	12	E14	50/60	Warm Light	10000H	1	10	50
CU15ED	3U	220-240	15	E27	50/60	Day Light	10000H	1	10	50
CU15EW	3U	220-240	15	E27	50/60	Warm Light	10000H	1	10	50
CU20ED	3U	220-240	20	E27	50/60	Day Light	10000H	1	10	50
CU20EW	3U	220-240	20	E27	50/60	Warm Light	10000H	1	10	50
CU20BW	3U	220-240	20	B22	50/60	Warm Light	10000H	1	10	50
CU20BD	3U	220-240	20	B22	50/60	Day Light	10000H	1	10	50
CU25BD	3U	220-240	25	B22	50/60	Day Light	10000H	1	10	50
CU25EW	3U	220-240	25	E27	50/60	Warm Light	10000H	1	10	50
CU25ED	3U	220-240	25	E27	50/60	Day Light	10000H	1	10	50
CU85ED	5U	220-240	85	E27	50/60	Day Light	10000H	1	-	6
CU85EW	5U	220-240	85	E27	50/60	Day Light	10000H	1	-	6



CFL-U type Mini



Warm Light

Day Light



4U E27



4U E27



4U E27



4U E27



4U E27



4U E27

Model	Type	Volt(V)	Watt(W)	Holder	Frequency (Hz)	Colour	Life (Hrs)	Pcs/Box	Pcs/M.Box	Pcs/Ctn
DU12ED	4U	220-240	12	E27	50/60	Day Light	10000H	1	10	50
DU12EW	4U	220-240	12	E27	50/60	Warm Light	10000H	1	10	50
DU15ED	4U	220-240	15	E27	50/60	Day Light	10000H	1	10	50
DU15EW	4U	220-240	15	E27	50/60	Warm Light	10000H	1	10	50
DU20ED	4U	220-240	20	E27	50/60	Day Light	10000H	1	10	50
DU20EW	4U	220-240	20	E27	50/60	Warm Light	10000H	1	10	50
DU23ED	4U	220-240	23	E27	50/60	Day Light	10000H	1	10	50
DU23EW	4U	220-240	23	E27	50/60	Warm Light	10000H	1	10	50
DU30ED	4U	220-240	30	E27	50/60	Day Light	10000H	1	10	50
DU30EW	4U	220-240	30	E27	50/60	Warm Light	10000H	1	10	50

CFL Spiral Lamp



[Save 80% of the power consumption compared with incandescent lamps].

Lighting up instantly without flicker.

Long life
[span more than 8,000 ~ 10,000 hrs.]

High efficiency
Low heat emission





CFL-Half Spiral



Warm Light

Day Light



B14 Spiral



B22 Spiral



E27 Spiral

Model	Type	Volt(V)	Watt (W)	Holder	Frequency (Hz)	Colour	Life (Hrs)	Pcs/Box	Pcs/M.Box	Pcs/Ctn
CP08ED	Half Spiral	220-240	8	E27	50/60	Day Light	10000H	1	10	50
CP10ED	Half Spiral	220-240	10	E27	50/60	Day Light	10000H	1	10	50
CP12EW	Half Spiral	220-240	12	E27	50/60	Day Light	10000H	1	10	50
CP12ED	Half Spiral	220-240	12	E27	50/60	Warm Light	10000H	1	10	50
CP12CD	Half Spiral	220-240	12	E14	50/60	Day Light	10000H	1	10	50
CP12CW	Half Spiral	220-240	12	E14	50/60	Warm Light	10000H	1	10	50
CP15ED	Half Spiral	220-240	15	E27	50/60	Day Light	10000H	1	10	50
CP20BD	Half Spiral	220-240	20	E14	50/60	Day Light	10000H	1	10	50
CP20EW	Half Spiral	220-240	20	E27	50/60	Warm Light	10000H	1	10	50
CP20ED	Half Spiral	220-240	20	E27	50/60	Day Light	10000H	1	10	50
CP26ED	Half Spiral	220-240	26	E27	50/60	Day Light	10000H	1	10	50
CP26BD	Half Spiral	220-240	26	E14	50/60	Warm Light	10000H	1	10	50
CP26EW	Half Spiral	220-240	26	E27	50/60	Warm Light	10000H	1	10	50
CP26BW	Half Spiral	220-240	26	E14	50/60	Warm Light	10000H	1	10	50
CP32BD	Half Spiral	220-240	32	E14	50/60	Day Light	10000H	1	10	40
CP32ED	Half Spiral	220-240	32	E27	50/60	Day Light	10000H	1	10	40
CP32EW	Half Spiral	220-240	32	E27	50/60	Warm Light	10000H	1	10	40
CP45BD	Half Spiral	220-240	45	E14	50/60	Day Light	10000H	1	-	20
CP45ED	Half Spiral	220-240	45	E27	50/60	Day Light	10000H	1	-	20
CP65ED	Half Spiral	220-240	65	E27	50/60	Day Light	10000H	1	-	20
CP65EW	Half Spiral	220-240	65	E27	50/60	Warm Light	10000H	1	-	20
CP85ED	Half Spiral	220-240	85	E27	50/60	Day Light	10000H	1	-	10
CP85EW	Half Spiral	220-240	85	E27	50/60	Warm Light	10000H	1	-	10



CFL-Full Spiral Mini



Warm Light

Day Light



E27 Full Spiral



E27 Full Spiral



E27 Full Spiral

Model	Type	Volt[V]	Watt [w]	Holder	Frequency [Hz]	Colour	Life [Hrs]	Pcs/Box	Pcs/M.Box	Pcs/Ctn
DP08ED	Full Spiral	220-240	8	E27	50-60	Day Light	10000H	1	10	50
DP08EW	Full Spiral	220-240	8	E27	50-60	Warm Light	10000H	1	10	50
DP10ED	Full Spiral	220-240	10	E27	50-60	Day Light	10000H	1	10	50
DP10EW	Full Spiral	220-240	10	E27	50-60	Warm Light	10000H	1	10	50
DP12ED	Full Spiral	220-240	12	E27	50-60	Day Light	10000H	1	10	50
DP12EW	Full Spiral	220-240	12	E27	50-60	Warm Light	10000H	1	10	50
DP13ED	Full Spiral	220-240	13	E27	50-60	Day Light	10000H	1	10	50
DP13EW	Full Spiral	220-240	13	E27	50-60	Warm Light	10000H	1	10	50
DP15ED	Full Spiral	220-240	15	E27	50-60	Day Light	10000H	1	10	50
DP15EW	Full Spiral	220-240	15	E27	50-60	Warm Light	10000H	1	10	50
DP20ED	Full Spiral	220-240	20	E27	50-60	Day Light	10000H	1	10	50
DP20EW	Full Spiral	220-240	20	E27	50-60	Warm Light	10000H	1	10	50
DP23ED	Full Spiral	220-240	23	E27	50-60	Day Light	10000H	1	10	50
DP23EW	Full Spiral	220-240	23	E27	50-60	Warm Light	10000H	1	10	50
DP25ED	Full Spiral	220-240	25	E27	50-60	Day Light	10000H	1	10	50
DP25EW	Full Spiral	220-240	25	E27	50-60	Warm Light	10000H	1	10	50
DP30ED	Full Spiral	220-240	30	E27	50-60	Day Light	10000H	1	10	50
DP30EW	Full Spiral	220-240	30	E27	50-60	Warm Light	10000H	1	10	50

Fluorescent Lamp



The most widely used straight type fluorescent lamp for the general lighting purpose .

The lamps illuminate every objects more naturally and vividly

Applications

Bedrooms, study room ,kitchen, shops ,offices ,
hospitals ,warehouses ,exhibitions halls and schools



Fluorescent Lamp



Model	Type	Power[W]	Cap	Voltage[V]	Lumens[lm]	CCT[K]	Life (Hrs)	Pcs/Ctn
FTL-1T8-18W	T8	18W	G13	220-240	1150	6500	15000	25
FTL-2T8-36W	T8	36W	G13	220-240	2800	6500	15000	25
FTLS-2T8-18W	T8	18W	G13	220-240	950	12000	15000	25
FTLS-2T8-36W	T8	36W	G13	220-240	2200	12000	15000	25

Candle Lamp



Candle Shape Lamp

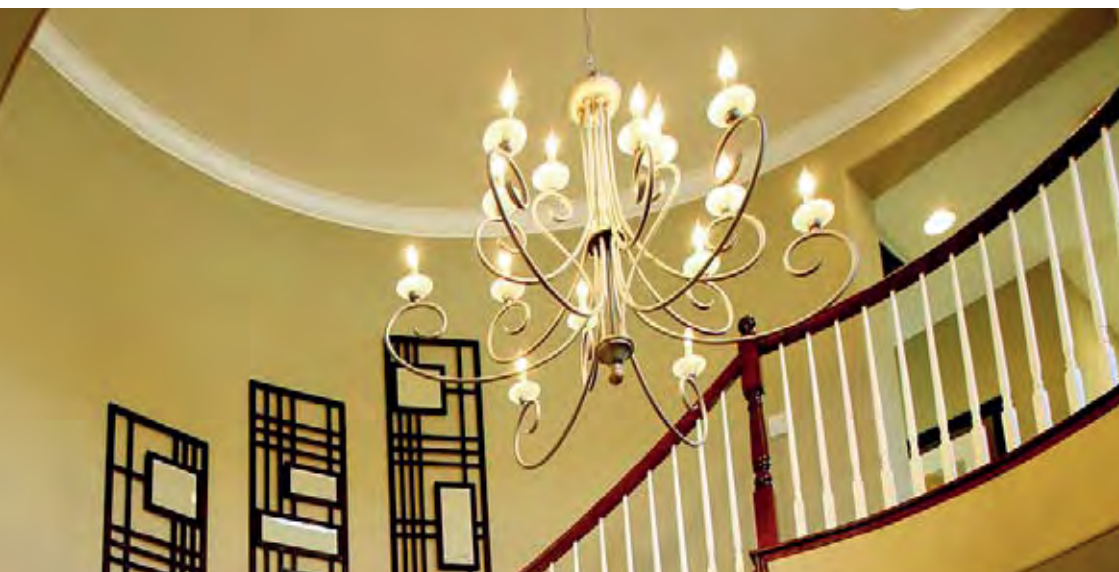
The lamp is suitable for lighting fixtures with the crystal decoration .

Applications

Chandeliers ,brackets, pendant lighting



Candle Lamp



Halogen Candle Lamp

Model	Base	Watt (W)	Volt (V)	Frequency (Hz)	Finish	Lumens (lm)	Life (Hrs)	Pcs/Ctn	Packing
CD14C	E14	14	220-240	50/60	Clear	200	2000	100	Carton
CD28C	E14	28	220-240	50/60	Clear	360	2000	100	Carton

Incandescent Candle Lamp

Model	Base	Watt (W)	Volt (V)	Frequency (Hz)	Finish	Lumens (lm)	Life (Hrs)	Pcs/Ctn	Packing
CD28IN	E14	28	220-240	50/60	White/Clear	200	2000	100	Carton



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