

LED Lamp

6W MR16A



6W MR16A uses high brightness LED engine which gives a superb illuminance. It is ideal for the use in tracks, rails, and pendants in exhibit, architectural and residential applications. Furthermore, the multi-selection on various colors offers a great experience in decorative and mood lighting applications. The lamp features standard GU5.3, which offers an instant replacement in MR16 type fixtures. With a life of more than 25,000 hours, it can be used in hard-to-reach locations to prevent a regular maintenance needs.

- Solid State Lighting Technology
- Reduce CO₂ Emission
- Superior Quality Light
- Energy Saving(6W)
- Ecologically Friendly

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Dimensions

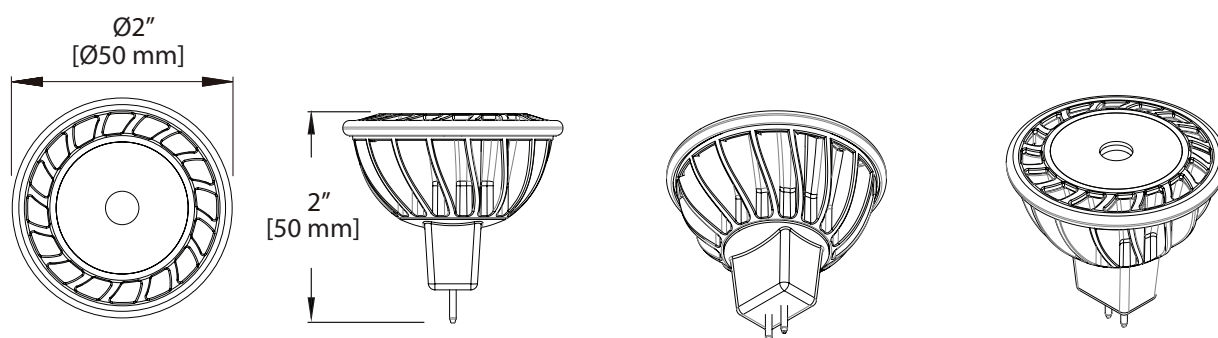


Figure 1: Dmensions for 6W MR16A. Tolerance: ± 1/8" [2.5 mm]

Absolute Maximum Rating

The following table shows electrical characteristics and operating temperature of 6W MR16A.

Parameter	Symbol	Rating	Units
Plastic Housing Temperature	T_c	65	°C
Operating Temperature	T_{opr}	-20 ~ +40	°C
Storage Temperature	T_{stg}	-40 ~ +60	°C
AC / DC Input Voltage	V	12	V
Equilibrium Temperature	T_{eq}	60	°C

Table 1: Absolute maximum rating for 6W MR16A.

Specifications

The following describes the choices of color temperature, angles, and CRI of 6W MR16A for different demand.

Parameter	Rating	Units
Power Consumption	6	Wattage
Beam angle	25 / 38	Degree
Field Angles	55 / 70	Degree
Color Temperature	3000 / 4000 / 6000	K
CRI	80 / 75 / 70	--
Weight	45 ± 5	g
Base	GU5.3	--

Table 2: Specifications for 6W MR16A.

Illuminance and Angles

• Cool White / Neutral White / Warm White

Power Consumption	Part Number	Beam Angles	Field Angles	CCT(Typ.)	Lux@ 1m (Typ.)	Lm (Typ.)
6W	MR16A-06510x			5650~7000K	1480	480
	MR16A-06520x	25°	55°	3800~4500K	1400	430
	MR16A-06530x			2670~3050K	1380	400
	MR16A-06710x			5650~7000K	1100	480
	MR16A-06720x	38°	70°	3800~4500K	1030	430
	MR16A-06730x			2670~3050K	1000	400

Table 3: 6W MR16A Illuminance for different colors.

Notes:

1. Lux value is measured under thermal balanced condition. (i.e. after 1 hour continuous operation)
2. LED is a dynamic and constantly evolving technology. The final lux output of your 6W MR16A may vary.
3. Input voltage = AC / DC 12V
4. * The beam angle is compatible with Philips LED MR16

Nomenclature

The following table describes the available colors, and angles.

MR16A - 06 5 1 0A

X1 X2 X3 X4 X5

X1 Product name	X2 Wattage	X3 Field Angle
MR16A	06 = 6W	5 = 55° 7 = 70°
X4 Color	X5 Cover	
1 = Cool White 2 = Neutral White 3 = Warm White	0A = White	

Figure 2: Nomenclature for 6W MR16A .

Application Notes

Ledionopto 6W MR16A is compatible for traditional MR16 and more effective. Meanwhile it can be easily installed in lighting fixture.



Figure 3: Application picture for 6W MR16A.

Lifetime

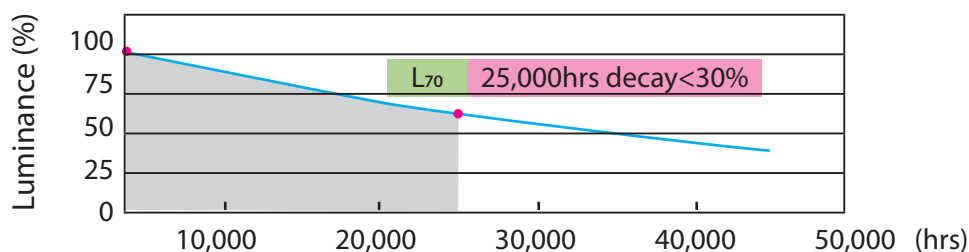


Table 4: Lifetime for 6W MR16A.

Driving Transformer Selection Guideline

- AC12V Magnetic Transformer (Recommendation):

All the LED bulb is compatible with magnetic transformers used with low voltage 12V halogens, suggested transformer rated power must large than 9W with one MR16

- AC12V Electronic Transformer (Not Recommendation):


The LED bulb is not compatible with all electronic transformers. Due to the transformer minimum load issue and unstable output which could cause no light output, flickering, strobe and randomly shutdown.

- DC12V Power Supply (Recommendation):

All the LED bulb is compatible with DC12V constant voltage power supply, suggested power supply rated power must large than 9W with one MR16.

Recommended DC Power Supply

The following table describes recommend DC power supply for 6W MR16A.

Input Voltage	Model	Picture
DC 12V (Input AC230V)	ANN A5-231215D	

P.S. : The DC power supply recommended connect with 1~2pcs 6W MR16A.

Table 5 : 6W MR16A recommend DC power supply transformer.

Environmentally Friendly

With the increasing demand for energy and the effect on global warming, Ledionopto lighting plays a role in preserving the forest by reducing energy consumption, and CO₂ emission one step at a time.

Replacing traditional halogen lamp with Ledion Lighting 6W MR16A Spotlight, one can help in reducing global warming by 245.9 kg of CO₂ annually.

6W MR16A VS 50W Halogen

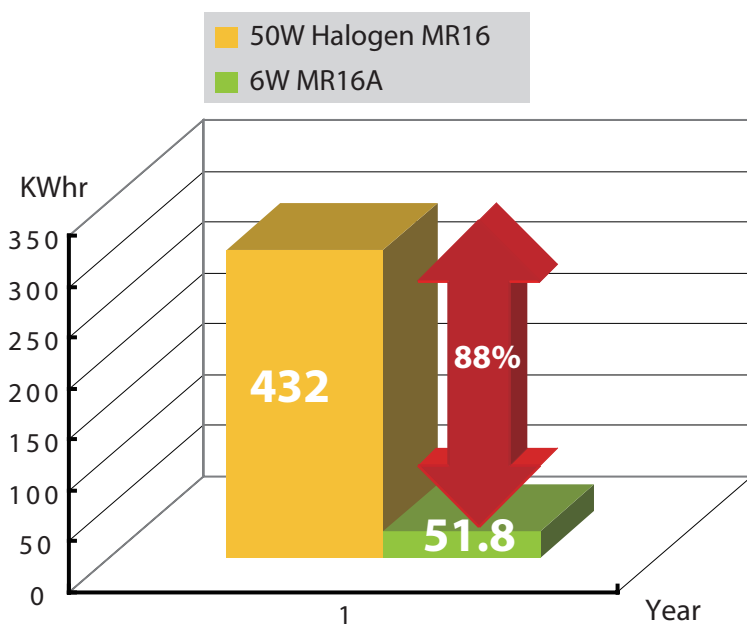
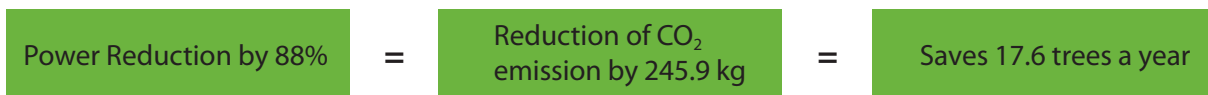


Figure 4 : 6W MR16A Environmentally Friendly.

Note : 1. Calculation based on 24 hours of daily operation.

Economical



Power Consumption: 50W
Expected Lifetime: 2,000 hrs



Power Consumption: 6W MR16A Saving : 380.2 kWh/year
Expected Lifetime: 30,000 hrs

Accumulated cost over lifetime

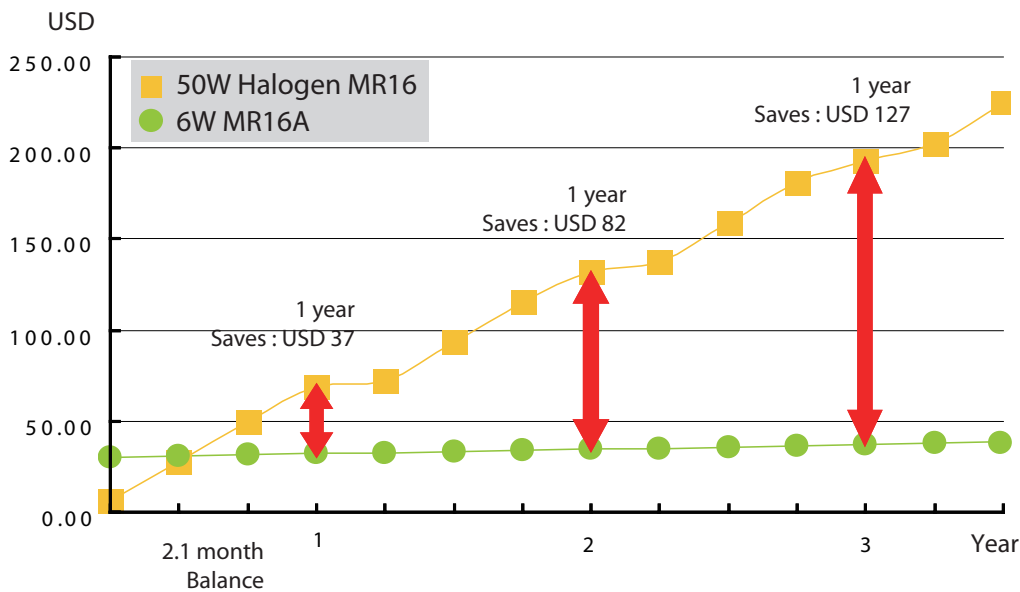


Figure 5 : 6W MR16A VS 50W Halogen.

Notes : 1.Calculation based on 24 hours of daily operation (€9.41/kWh).
 2.Cost includes the replacement of 50W halogen MR16.

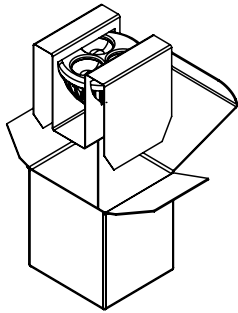
Package Information(Standard)

Notes:

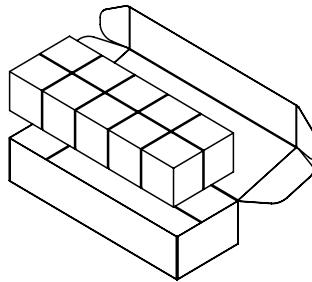
Pack Dimensions : 60mm(length)*55mm(width)*65mm(height)

Box Dimensions : 330mm(length)*120mm(width)*70mm(height)

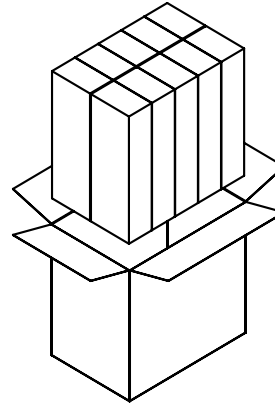
Carton Dimensions : 368mm(length)*248mm(width)*350mm(height)



1pc / Pack



10 pcs / Box



100 pcs / Carton

Figure 6: Standard Package informations for 6W MR16A.