

LED SPOT LIGHT SERIES



E14 LED ENERGY SAVING SPOT LIGHT



E27 LED ENERGY SAVING SPOT LIGHT



GU10 ENERGY SAVING SPOT LIGHT



MR16 ENERGY SAVING SPOT LIGHT



PAR20 LED ENERGY SAVING SPOT LIGHT



PAR30 LED ENERGY SAVING SPOT LIGHT



Features:

1. Only consumed 1/7 power of traditional MR16.
2. Super long life, with more than 50,000 working hours.
3. No stroboscopic effect, effectively protect user's eyes.
4. Excellent color restoring ability (Ra>70.)
5. High performance & constant current driving circle inside.
6. Compatible with AC and 12V input.

CHE-MR16-W04DQ technical parameters

Input Voltage	AC or DC 12V
Total Power Input	3.6W
Luminous Flux	160 lm
Color Temperature	2700K, 4000K, 6000K
Rendering Index	>70
Beam Angle	100°
Luminance	6.9Lum/3M



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LED Light Series

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LED LIGHTING

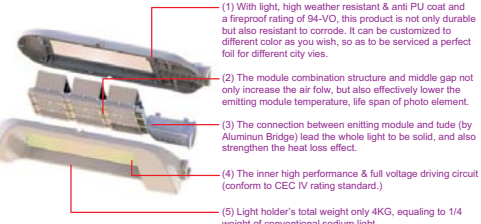


- LED Street Light Series
- LED T9 Light Series
- LED Spot Light Series

VIGORTEC
Vigortec Ltd.

Light, Module Assembly And Practical Street Light

Innovative Structural Design:



Applying For The Patent

45W/85W/125W LED Street Light Series

S9 series: The 45W/125W high performance LED Street light is an eco-friendly and energy saving product. Due to its high efficiency LED light (only 100lm/W) and its high performance & full voltage driving circuit (which conform to CE IV rating standard), the total power consumption of this lamp is only 45/85/125Watt. This fashion leading product can be replaced the conventional lamp. Meanwhile, the conceptual module design makes the whole lamp to be light, simple, safe and reliable, the emitting light to be bright, clear, and clean, no dazzled light, no stroboscopic effect, and the street to be safer and brighter.

Features:

- Long working life (about 50,000 hours, under the condition of 70% brightness and an illumination time of 10hours/day).
- Energy saving and low power consumption.
- No hazard chemicals as mercury, recyclable and eco-friendly.
- Excellent color restoring ability (RA>70)
- Emitting color close to the daylight, protecting your eyes from tired.
- Healthy, clean, no radiation, no dazzled light, no stroboscopic effect.
- Solid light (exposure/impact resistant, fireproof)
- AC 100-240V 50/60 Hz input is available.
- Power consumption coefficient 90% total harmonic wave distortion 15%, no pollution to power net.
- waterproof, dustproof, IP rating 65
- Fast startup speed, the interval between starting to lighting is less than 1 second.
- High performance light (100lm/W)
- Simple, solid and light structure, safe and easy installation.
- Available in 30°-40 degree installation.
- Light total weight (1kg) than 2.0KG
- Recommended fixture height: 6/8/10 meter.

QH-89X45 Series Property Parameter :			
Input Voltage and Frequency	AC 100-240V 50/60Hz	AC 100-240V 50/60Hz	AC 100-240V 50/60Hz
Output Power	45W/85W/125W	45W/85W/125W	45W/85W/125W
Rated Voltage	AC 100V/120V/230V/240V	AC 100V/120V/230V/240V	AC 100V/120V/230V/240V
Rated Current	0.90A/1.67A/2.08A	0.90A/1.67A/2.08A	0.90A/1.67A/2.08A
Color Rendering Index	>75	>75	>75
Humidity	0-95%RH @ 25℃/77℉	0-95%RH @ 25℃/77℉	0-95%RH @ 25℃/77℉
Rated Tube Distance	1000mm	1000mm	1000mm
Rated Tube Length	1200mm	1200mm	1200mm
Rated Tube Diameter	φ40mm	φ40mm	φ40mm
Rated Tube Weight	0.90kg	0.90kg	0.90kg

The power consumption efficiency comparison between LED street light, mercury light and high voltage sodium light: (Reference data)

Item	400W High voltage sodium lamp	450W mercury lamp	125W LED light
Total Power consumption	8000 lm	8000 lm	7000 lm
Luminous flux(lm)	20 lm/W	18 lm/W	56 lm/W
Power Consumption(W)	400W	450W	125W
Illumination (At 7 m height)	Average illumination : >3-12Lux		
Consumed Power (Kilowatt-Hour/Hr.)	IESNA Standard	50Lux(PASS)	40Lux(PASS)
	Specification	50Lux(PASS)	40Lux(PASS)
Saved Power According To Consumed Power	0.44Kilowatt-Hour/Hr.	0.44Kilowatt-Hour/Hr.	0.125Kilowatt-Hour/Hr.
	Reference	Reference	Saved 72.2% (0.325Kilowatt-Hour/Hr.)
Saved the power charge pre year (Kilowatt-HourYear@12Hr./day)	219Kilowatt-Hour	Reference	1423.5Kilowatt-Hour
	RMB 153.3dollar	RMB 153.3dollar	RMB 996.45dollar
Maintenance charge (10 years, within the life span of the lamp)	Lamp 38 RMB+ Salary 40RMB/time 75=57.353USD	Lamp 22 RMB+ Salary 40RMB/time 75=97.176USD	0 dollar
	RMB 1923dollar	Reference	RMB 9964.5dollar
Total invested power charge and maintenance charge(RMB)	1. power charge 12.25dollar	1. power charge 13.77dollar	1. power charge 3.823dollar
	2. maintenance charge 359dollar	2. maintenance charge 620dollar	2. maintenance charge 6dollar
	3. total charge 12,654dollar	3. total charge 14,417dollar	3. total charge 4.832dollar
Property And Eco-friendly Comparison	Color Rendering Index	Ra=20-85	Ra=10-60
	Color Temperature	2000-2500K	3300-5700K
	Service Life(Hour)	2000Hours	5000Hours
UN Environment Protection Agreement	Containing radiation chemicals	Containing mercury, lead and manganese	No radiation chemical

Different LED street light is equipped with different radiator to adapt different climate and environment.

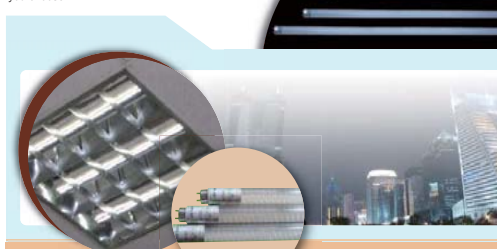
Type	Appearance	Property	Available Environment
Type A		A special designed radiator. There are full of fins on one side of radiator to achieve a large heat radiating area, which make the heat radiating fast and efficiently when LED is on work, maintaining photo module at a low temperature (40 degree), and extending the life of whole circuit.	
Type B		A special designed radiator. With one-step-together technology (well combined aluminum base and radiator) and its full of spiny radiating post on back end/wing the product with a fast radiating speed, no dust retaining and long-term heat radiating effect.	

Compact Type: T9 series

Compact Type: T9 series

The compact LED Tube of T9 series is a new type of energy saving and eco-friendly LED light, which use high performance LED as photo element. Compare with conventional linear fluorescent light tube, T9 series have higher illumination efficiency and save more energy. The inner high performance & full voltage driving circuit creates a solid and constant direct current for LED photo component and eliminates the stroboscopic effect caused by conventional tube and effectively protect the user's eyes.

Besides, the hi-quality aluminum lamp body makes the whole lamp rich in hi-value feeling and durable, while the special photo lamp shade let the whole linear fluorescent light tube have a soft, please, clean and bright light. There is a range of color (pure white, warm white, red, orange, yellow, green, blue, purple, and etc.) and color temperature for you choose.



Features:

- Saved more than 20% power compare with regular linear fluorescent light tube.
- Super long life, with more than 50,000 working hours, 5 times to the regular linear fluorescent light tube.
- No stroboscopic effect, eliminating eyes exhaustion caused by the conventional tube, effectively protecting user's eyesight.
- Soft and even light, no ultraviolet and infra-red radiation.
- Excellent color restoring ability (pure white), RA>75
- The interval from starting to lighting is less than 1 second, no flash and time extension of the conventional tube.
- Inner high performance & full voltage driving circuit (conform to EFC IV rating standard).
- AC 100-240V 50/60Hz input is available.
- Easy wire connection and simple installation.
- Solid light, impact and strong shock resistant.
- No hazard chemical (e.g. Mercury), recyclable and eco-friendly

Part No. And Property Parameter:

Part No.	Emitting Color	Color Temperature(K)	Color Rend. Index	Lumens (lm)	Power Consumption(W)	Illumination Efficiency (lm/W)	Voltage (V)	Beam Angle
GHE-T9W165A	Pure White	6000K	70	300	6.5W	46	AC 100-240V	140°
GHE-T9Y165A	Warm White	4000K	65	260	6.5W	40		
GHE-T9R165A	Red	235	-	100	6.5W	15		
GHE-T9O165A	Orange	230	-	100	6.5W	15		
GHE-T9Y165A	Yellow	580	-	100	6.5W	15		
GHE-T9G165A	Green	530	-	140	6.5W	21		
GHE-T9B165A	Blue	460	-	75	6.5W	11.5		
GHE-T9P165A	Purple	400	-	30	6.5W	4.6		

Part No. And Property Parameter:

Part No.	Emitting Color	Color Temperature(K)	Color Rend. Index	Lumens (lm)	Power Consumption(W)	Illumination Efficiency (lm/W)	Voltage (V)	Beam Angle
GHE-T9Y225A	Pure White	6000K	75	480	9W	60	AC 100-240V	130°
GHE-T9Y225A	Warm White	4000K	65	420	9W	52.5		
GHE-T9R225A	Red	235	-	200	9W	22.2		
GHE-T9O225A	Orange	230	-	200	9W	22.2		
GHE-T9Y225A	Yellow	580	-	200	9W	22.2		
GHE-T9G225A	Green	530	-	270	9W	30		
GHE-T9B225A	Blue	460	-	110	9W	12.2		
GHE-T9P225A	Purple	400	-	47	9W	5.2		

Part No. And Property Parameter:

Part No.	Emitting Color	Color Temperature(K)	Color Rend. Index	Lumens (lm)	Power Consumption(W)	Illumination Efficiency (lm/W)	Voltage (V)	Beam Angle
GHE-T9Y285A	Pure White	6000K	75	720	12W	60	AC 100-240V	140°
GHE-T9Y285A	Warm White	4000K	65	640	12W	53		
GHE-T9R285A	Red	235	-	280	12W	23.3		
GHE-T9O285A	Orange	230	-	280	12W	23.3		
GHE-T9Y285A	Yellow	580	-	280	12W	23.3		
GHE-T9G285A	Green	530	-	340	12W	28.3		
GHE-T9B285A	Blue	460	-	170	12W	14.2		
GHE-T9P285A	Purple	400	-	73	12W	6.1		

Part No. And Property Parameter:

Part No.	Emitting Color	Color Temperature(K)	Color Rend. Index	Lumens (lm)	Power Consumption(W)	Illumination Efficiency (lm/W)	Voltage (V)	Beam Angle
GHE-T9W425A	Pure White	6000K	75	1050	18W	62.5	AC 100-240V	150°
GHE-T9Y425A	Warm White	4000K	65	900	18W	55		
GHE-T9R425A	Red	235	-	340	18W	19		
GHE-T9O425A	Orange	230	-	340	18W	19		
GHE-T9Y425A	Yellow	580	-	340	18W	19		
GHE-T9G425A	Green	530	-	420	18W	23.3		
GHE-T9B425A	Blue	460	-	210	18W	11.7		
GHE-T9P425A	Purple	400	-	100	18W	5.6		

Part No. And Property Parameter:

Part No.	Emitting Color	Color Temperature(K)	Color Rend. Index	Lumens (lm)	Power Consumption(W)	Illumination Efficiency (lm/W)	Voltage (V)	Beam Angle
GHE-T9W585A	Pure White	6000K	75	1530	26W	62.5	AC 100-240V	140°
GHE-T9Y585A	Warm White	4000K	65	1100	26W	55		
GHE-T9R585A	Red	235	-	430	26W	16.5		
GHE-T9O585A	Orange	230	-	430	26W	16.5		
GHE-T9Y585A	Yellow	580	-	430	26W	16.5		
GHE-T9G585A	Green	530	-	510	26W	19.6		
GHE-T9B585A	Blue	460	-	260	26W	10		
GHE-T9P585A	Purple	400	-	125	26W	4.8		

Part No. And Property Parameter:

Part No.	Emitting Color	Color Temperature(K)	Color Rend. Index	Lumens (lm)	Power Consumption(W)	Illumination Efficiency (lm/W)	Voltage (V)	Beam Angle
GHE-T9W845A	Pure White	6000K	75	2130	36W	62.5	AC 100-240V	140°
GHE-T9Y845A	Warm White	4000K	65	1820	36W	55		
GHE-T9R845A	Red	235	-	550	36W	15.3		
GHE-T9O845A	Orange	230	-	550	36W	15.3		
GHE-T9Y845A	Yellow	580	-	550	36W	15.3		
GHE-T9G845A	Green	530	-	660	36W	18.3		
GHE-T9B845A	Blue	460	-	340	36W	9.4		
GHE-T9P845A	Purple	400	-	150	36W	4.2		