HPWINNER
HANGZHOU HPWINNER OPTO CORPORATION
Add.: No. 18, Kangzhong Road, Gongshu District, Hangzhou, 310015, China
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T9A LED Modular Street Light

Product Specification

Features

- Modular pluggable technology, tool-free onsite maintenance;
- Honeycomb briquette burning effect and the whole structure cooling technology;
- Double-coupling IP68 protection, higher waterproof level;
- Ergonomic light distribution to achieve even illuminating effect;
- Free serialization and various power solutions.

Typical Applications

- Street lighting, park lighting, roadway lighting, path lighting.

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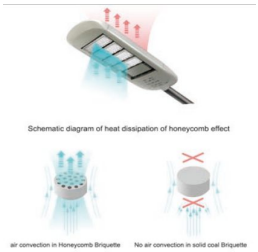
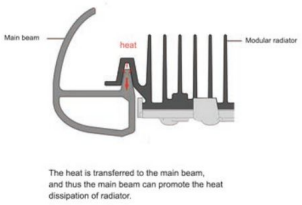
Special Technical Advantages of HPWINNER Modular Lights



Honeycomb Briquette effect
It simulates and adopts the burning principle of honeycomb briquette; it is easy to transform the original block of radiator to various modules, as well as to enable air to convect and fully pass through the gaps between modules by utilizing the honeycomb effect, thus to remove the heat rapidly, and reduce temperature by around 20 ℃.



Heat dissipation of the whole structure
It is available to make clever use of module bracket that only play a supporting role, and to transform it to a “thermal bracket” that is capable of conducting the module’s heat to the light shell as a structural part, thus to promote the cooling effect of radiator of cooling module, the design aims to fully utilize the surface area of structural parts to transfer heat to air.

Tool-free maintenance
It uses special structural design to achieve the manual disassembly and installation of lighting components, in consideration that the high-power lights are generally installed in higher operating environment, the operators require as few tools as possible for their convenience and security.

Double-coupling IP68 protection
It adopts the screw-free structure to avoid the penetration of water vapor through the screw hole; its double silicon-rubber rings insulate LEDs with the outside environment completely, thus to eliminate any erosion to chips and PCB boards from outside.

High-efficacy LED Light source
It adopts Philips lumileds LUXEON T LED source with super efficacy and light output from a compat source. Optimized for efficacy driven applications with typical Vf: 2.7V and low thermal resistance: 3K/W. Specified, targeted and tested hot, at real world operating temperatures, Tj=85℃ to ensure in- application performance.

Free Serialization
It is available to freely equip with different numbers of modules to achieve different powers as required.

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Electrical and Photometric Specification

Model	Input Voltage (V)	Driving Current (mA)	Power (W)	Luminous Efficacy (lm/W)	Flux (lm)	Power Factor	Power Efficiency	Beam Angle	LED Brand	CCT (K)	CRI
T9A-1	AC100-277	700	40	100±5	4000±200	0.95	91%	Batwing, Iso-brightness	Philips Lumileds Luxeon T	3000,4000, 5000,5700	>70
		860	50	95±5	4750±250						
		1050	60	90±5	5400±300						
T9A-2	AC100-277	700	80	100±5	8000±400	0.95	91%	Batwing, Iso-brightness	Philips Lumileds Luxeon T	3000,4000, 5000,5700	>70
		860	100	95±5	9500±500						
		1050	120	90±5	10800±600						
T9A-3	AC100-277	700	120	100±5	12000±600	0.95	91%	Batwing, Iso-brightness	Philips Lumileds Luxeon T	3000,4000, 5000,5700	>70
		860	150	95±5	14250±750						
		1050	180	90±5	16200±900						
T9A-4	AC100-277	700	160	100±5	16000±800	0.95	91%	Batwing, Iso-brightness	Philips Lumileds Luxeon T	3000,4000, 5000,5700	>70
		860	200	95±5	19000±1000						
T9A-5	AC100-277	700	200	100±5	20000±1000	0.95	91%	Batwing, Iso-brightness	Philips Lumileds Luxeon T	3000,4000, 5000,5700	>70
		860	250	95±5	23750±1250						
T9A-6	AC100-277	700	240	100±5	24000±1200	0.95	91%	Batwing, Iso-brightness	Philips Lumileds Luxeon T	3000,4000, 5000,5700	>70
		860	300	95±5	28500±1500						
T9A-7	AC100-277	700	280	100±5	28000±1400	0.95	91%	Batwing, Iso-brightness	Philips Lumileds Luxeon T	3000,4000, 5000,5700	>70
		860	350	95±5	33250±1750						

Mechanical and Environmental Specification

Model	Working Environment	Storage Temperature	Lumen Maintence (h)	Housing Material	Pole Diameter (mm)	Product Size (mm)	Packing Size (mm)	N.W (kg)	G.W (kg)
T9A-1	-40℃～+50℃, 10%～90%RH	-40℃～+50℃	>50000	Aluminum Alloy	57-63	566*386*90	705*490*172	7.7	8.5
T9A-2						646*386*90	785*490*172	8.9	9.7
T9A-3						726*386*90	865*490*172	10.1	10.9
T9A-4						806*386*90	945*490*172	11.3	12.3
T9A-5						886*386*90	1025*490*172	12.5	14
T9A-6						1064*386*90	1203*490*172	15.5	17
T9A-7						1144*386*90	1283*490*172	16.7	18.2

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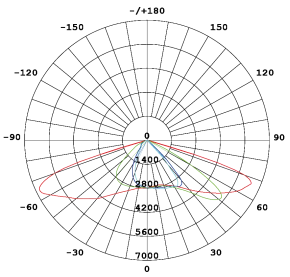
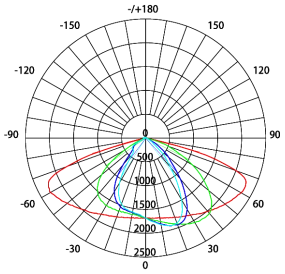
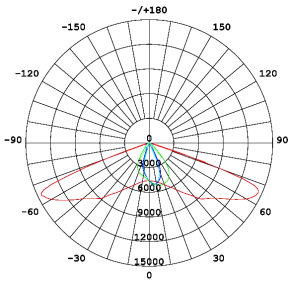
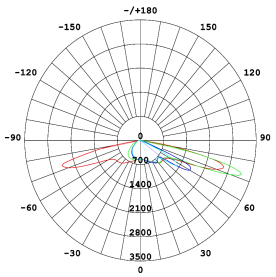
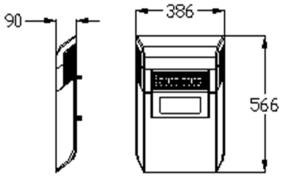
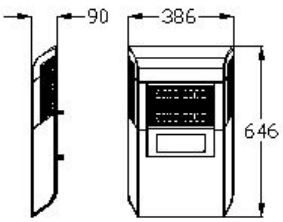
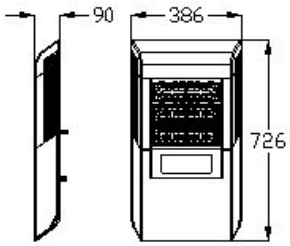
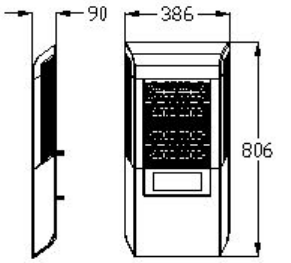
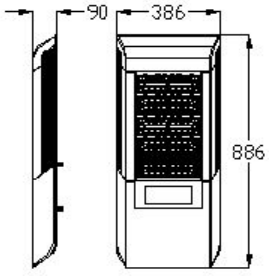
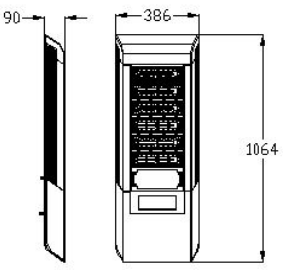
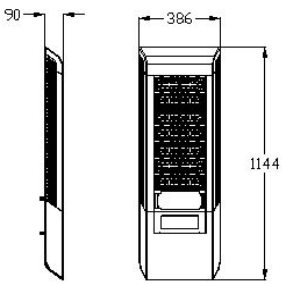
Light Distribution

Light Distribution	Batwing	Iso-brightness
		
	Batwing (suitable for narrow road)	**Batwing (suitable for long pole distance)**
		

Product Drawing

T9A-1	T9A-2	T9A-3	T9A-4
			

T9A-5	T9A-6	T9A-7
		

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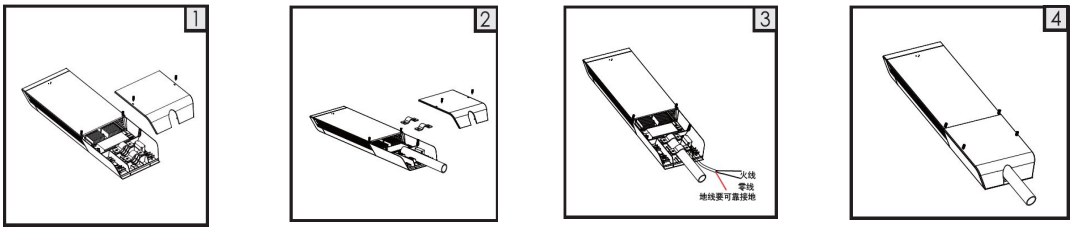
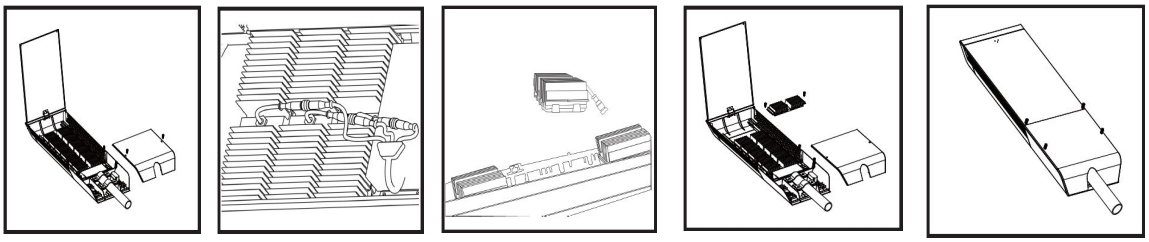
Installation



Step 1: *Open the backside rear cover;*
Step 2: *Insert the light pole into lamp holding brackets, and fix four screws;*
Step 3: *Connect the AC wire;*
Step 4: *Close the backside rear cover and fasten up the two screws on the backside surface.*

Maintenance



Step 1: *Loosen the screws on the backside surface, and open the back rear cover;*
Step 2: *Loosen the screws on driver or modules;*
Step 3: *Unscrew the waterproof connectors;*
Step 4: *Take out the driver or the modules;*
Step 5: *Replace the driver or the modules, and fasten up the screws;*
Step 6: *Close the backside rear cover and fasten up the two screws on the backside surface of the lamp.*

Ordering Information

Model	Quantity of LED	Watt	CCT	Colors	Beam Angle	Power Cord
T9A	1 2 3 4 5 6 7	40/50/60 80/100/120 120/150/180 160/200 200/250 240/300 280/350	30=3000k 40=4000k 50=5000k 57=5700k	BK=Black SL=Silvery	1=Batwing 2=Iso-Brightness	A=America Standard E=European Standard U=Australia Standard O=Other Requirements