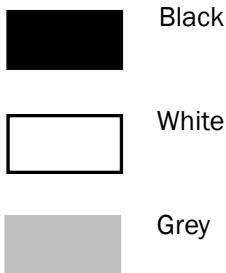


Applications

- Roadway lighting
(Urban road, street, expressway...)
- Area lighting
(City hall square, business district, parking lot...)

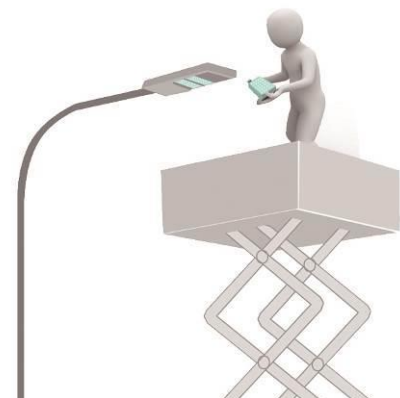


Standard Colors


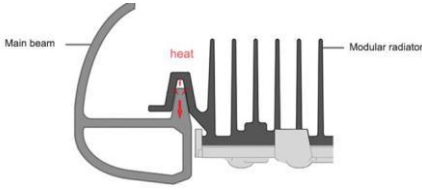

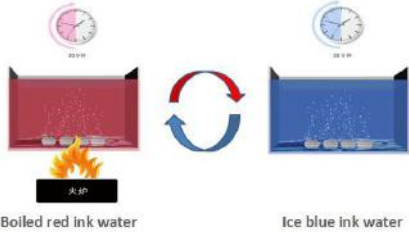




Features

- Honeycomb briquette burning effect and the whole structure cooling technology;
- Modular pluggable technology, tool-free onsite maintenance;
- IP65 driver box and optional photocell;
- Double-coupling IP68 protection, highest waterproof level;
- Ergonomic lighting distribution to achieve uniform illuminating effect;
- Free modular serialization and full power range solution.



HPWINNER's Technical Advantages

		
<p>Air Convection Effect</p>	<p>Whole-structure Heat Dissipation</p>	<p>Tool-less Maintenance</p>
	 <p>Extreme efficacy, best performance and compatibility</p> <p>Hot color targeted 6V QFN package delivering high flux</p> <p>The high lumen, high efficacy, multi-die single emitter committed to lowering lighting system cost</p>	
<p>Double-coupling IP68 Protection</p>	<p>High-efficiency LED Light Source</p>	<p>Flexible Combinations of Modules</p>

Electrical & Photometric

- Adopt Lumileds LEDs

Model	Input Voltage (V) Frequency Range (Hz)	Drive Current (mA)	Power (w)	M1A [®]		M8B		Power Factor	Power Efficiency	LED Brand	CCT (k)	CRI
				Luminous Efficacy (lm/w)	Lumens (lm)	Luminous Efficacy (lm/w)	Lumens (lm)					
T20A-1	AC100-240 50/60	700	40	105±5	4200±200	120±5	4800±200	0.95	88%	Lumileds	3000 4000 5000 5700	≥70
		860	50	100±5	5000±250	115±5	5750±250					
		1050	60	95±5	5700±300	110±5	6600±300					
T20A-2	AC100-240 50/60	700	80	110±5	8800±400	125±5	10000±400	0.95	91%			
		860	100	105±5	10500±500	120±5	12000±500					
		1050	120	100±5	12000±600	115±5	13800±600					
T20A-3	AC100-240 50/60	700	120	110±5	13200±600	125±5	15000±600	0.95	91%			
		860	150	105±5	15750±750	120±5	18000±750					
		1050	180	100±5	18000±900	115±5	20700±900					
T20A-4	AC100-240 50/60	700	160	110±5	17600±800	125±5	20000±800	0.95	91%			
		860	200	105±5	21000±1000	120±5	24000±1000					
		1050	240	100±5	24000±1200	115±5	27600±1200					
T20A-5	AC100-240 50/60	700	200	110±5	22000±1000	125±5	25000±1000	0.95	91%			
		860	250	105±5	26250±1250	120±5	30000±1250					
		1050	300	100±5	30000±1500	115±5	34500±1500					

- For M1A module, Luminous Efficacy of 3000K is 5% lower than other CCTs.

- Adopt Customized Chips from World-leading Supplier

Model	Input Voltage (V) Frequency Range (Hz)	Drive Current (mA)	Power (w)	M16B		Power Factor	Power Efficiency	LED Brand	CCT (k)	CRI
				Luminous Efficacy (lm/w)	Lumens (lm)					
T20A-1	AC100-240 50/60	600 (9P2S)	30	150±8	4500±240	0.95	88%	Customized Chips from World-leading Supplier	3000 4000 5000 5700	≥70
		600 (14P2S)	30	158±8	4740±240					
		800 (9P2S)	40	145±8	5800±320					
		800 (14P2S)	40	153±8	6120±320					
		1000 (9P2S)	50	138±8	6900±400					
		1000 (14P2S)	50	147±8	7350±400					
		1200 (9P2S)	60	130±8	7800±480					
		1200 (14P2S)	60	140±8	8400±480					

Electrical & Photometric

- Adopt Customized Chips from World-leading Supplier

Model	Input Voltage (V) Frequency Range (Hz)	Drive Current (mA)	Power (w)	M16B		Power Factor	Power Efficiency	LED Brand	CCT (k)	CRI
				Luminous Efficacy (lm/w)	Lumens (lm)					
T20A-2	AC100-240 50/60	800 (9P2S)	80	150±8	12000±640	0.95	91%	Customized Chips from World-leading Supplier	3000 4000 5000 5700	≥70
		800 (14P2S)	80	158±8	12640±640					
		1000 (9P2S)	100	143±8	14300±800					
		1000 (14P2S)	100	152±8	15200±800					
		1200 (9P2S)	120	135±8	16200±960					
		1200 (14P2S)	120	145±8	17400±960					
T20A-3	AC100-240 50/60	800 (9P2S)	120	150±8	18000±960	0.95	91%	Customized Chips from World-leading Supplier	3000 4000 5000 5700	≥70
		800 (14P2S)	120	158±8	18960±960					
		1000 (9P2S)	150	143±8	21450±1200					
		1000 (14P2S)	150	152±8	22800±1200					
		1200 (9P2S)	180	135±8	24300±1440					
		1200 (14P2S)	180	145±8	26100±1440					
T20A-4	AC100-240 50/60	800 (9P2S)	160	150±8	24000±1280	0.95	91%	Customized Chips from World-leading Supplier	3000 4000 5000 5700	≥70
		800 (14P2S)	160	158±8	25280±1280					
		1000 (9P2S)	200	143±8	28600±1600					
		1000 (14P2S)	200	152±8	30400±1600					
		1200 (9P2S)	240	135±8	32400±1920					
		1200 (14P2S)	240	145±8	34800±1920					
T20A-5	AC100-240 50/60	800 (9P2S)	200	150±8	30000±1600	0.95	91%	Customized Chips from World-leading Supplier	3000 4000 5000 5700	≥70
		800 (14P2S)	200	158±8	31600±1600					
		1000 (9P2S)	250	143±8	35750±2000					
		1000 (14P2S)	250	152±8	38000±2000					
		1200 (9P2S)	300	135±8	40500±2400					
		1200 (14P2S)	300	145±8	43500±2400					

Working environment & Packing

Model	Working Environment	Storage Temperature	IP Rating	Surge Protection	LED Life Span (h)	Housing Material	Pole Diameter (mm)	Product Dimensions (mm)	Carton Size (mm)	N.W (kg)	G.W (kg)
T20A-1	-40°C~+50°C, 10%~90%RH.	-40°C~+50°C	Whole fixture IP65	≥10KV	>50,000	Metal	55-65	670*325*180	760*410*210	8.0	9.6
T20A-2								670*325*180	760*410*210	8.7	10.4
T20A-3								750*325*180	840*410*210	9.9	11.7
T20A-4								830*325*180	920*410*210	11.5	13.4
T20A-5								910*325*180	1000*410*210	13.0	15.1

Note: Above data of weight are all typical values.

Warranty

5-year limited warranty is standard on luminaire and components.

Light Distributions

M1A LED module



<p>T1S1501</p>	<p>T1S3501</p>	<p>T4M5703</p>
<p>IESNA Type I Short</p>	<p>IESNA Type I Short</p>	<p>IESNA Type IV Short</p>
<p>T3M2701</p>	<p>T1S3100</p>	<p>T2M3702</p>
<p>IESNA Type III Medium</p>	<p>IESNA Type I Short</p>	<p>IESNA Type II Medium</p>
<p>T1S1810</p>	<p>T3M3910</p>	
<p>IESNA Type I Short</p>	<p>IESNA Type III Medium</p>	

Light Distributions

M8B LED module



T2S2321	T3M1321	T2S5321
IESNA Type II Short	IESNA Type III Medium	IESNA Type II Short
T2S1324		
IESNA Type III Short		

Light Distributions

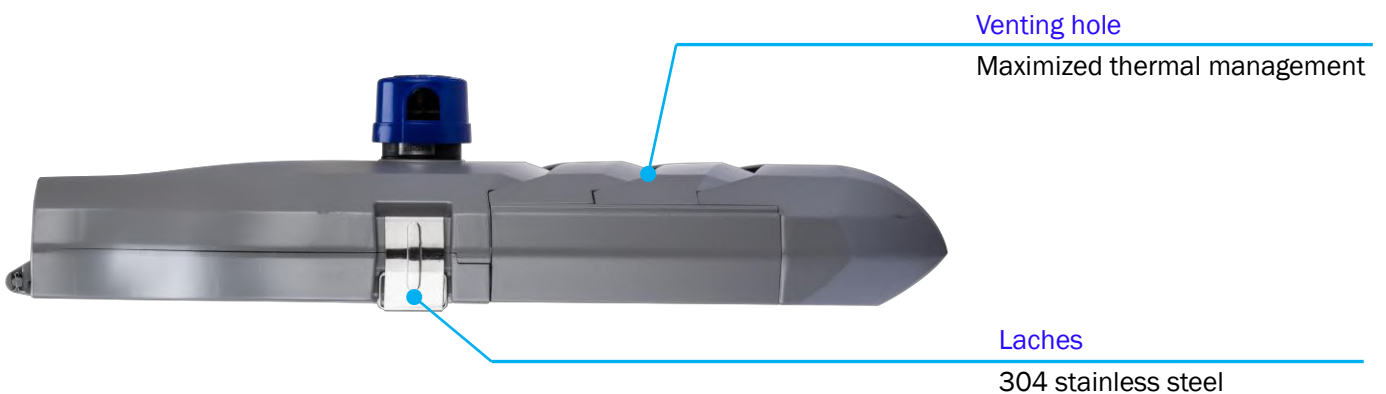
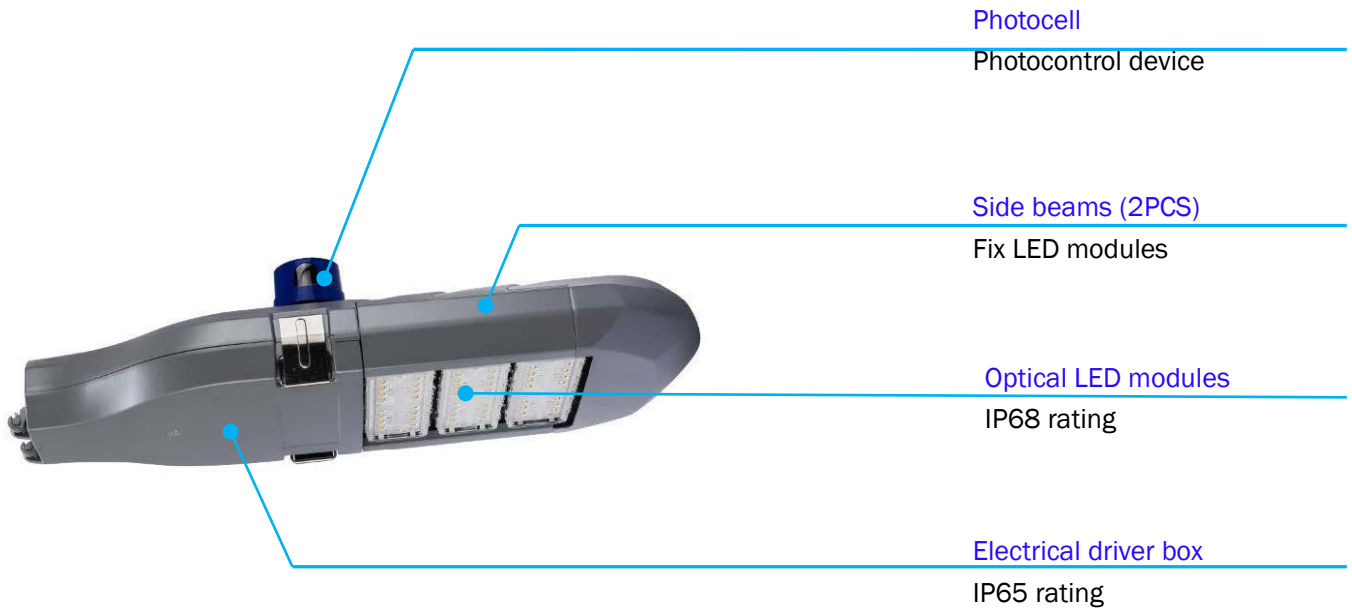
M16B LED module



T2S3106	T1S1107	T2S2105
IESNA Type II Short	IESNA Type I Short	IESNA Type II Short
T2M2109		
IESNA Type II Medium		

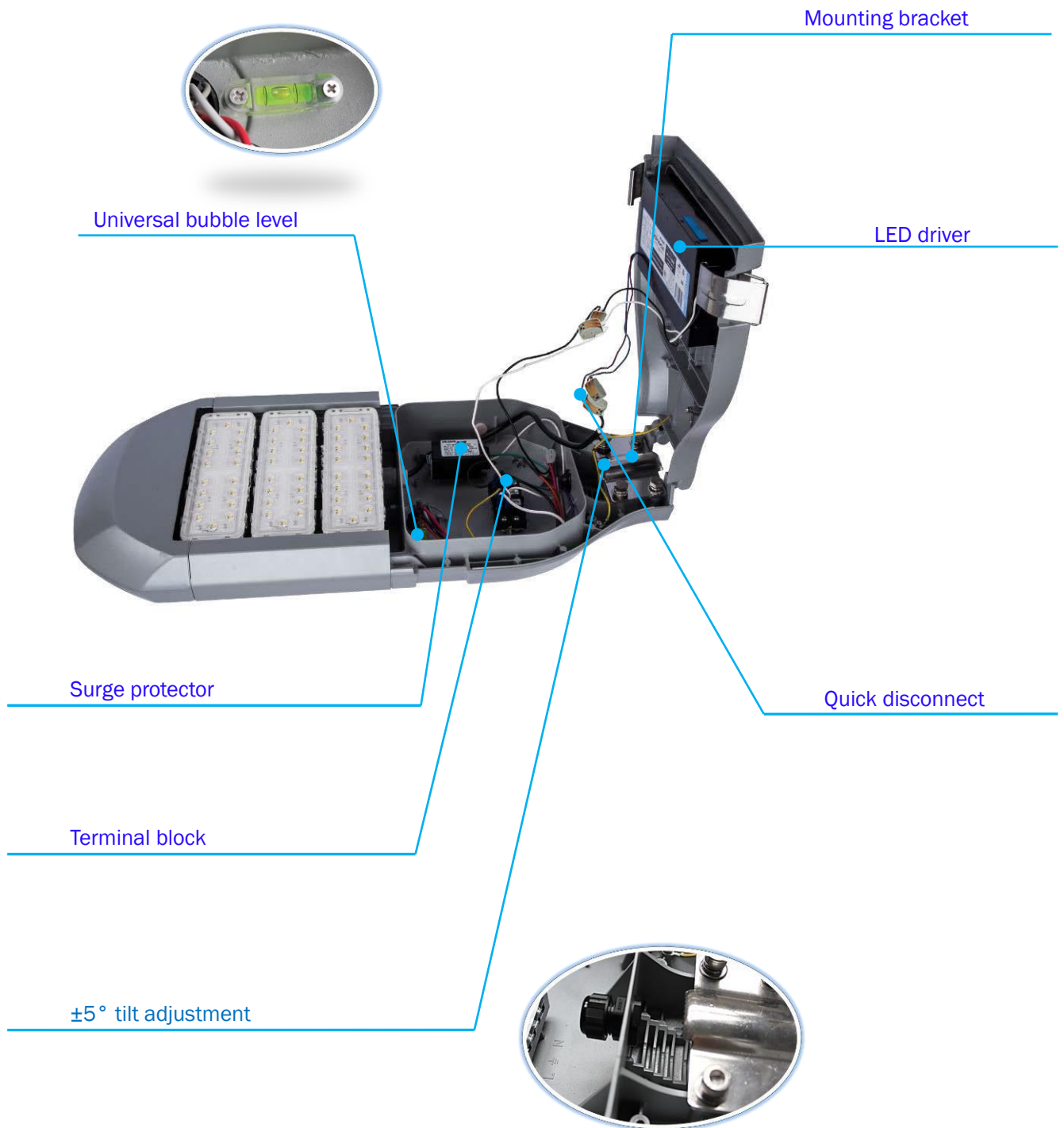
Design Features

- External Design Features

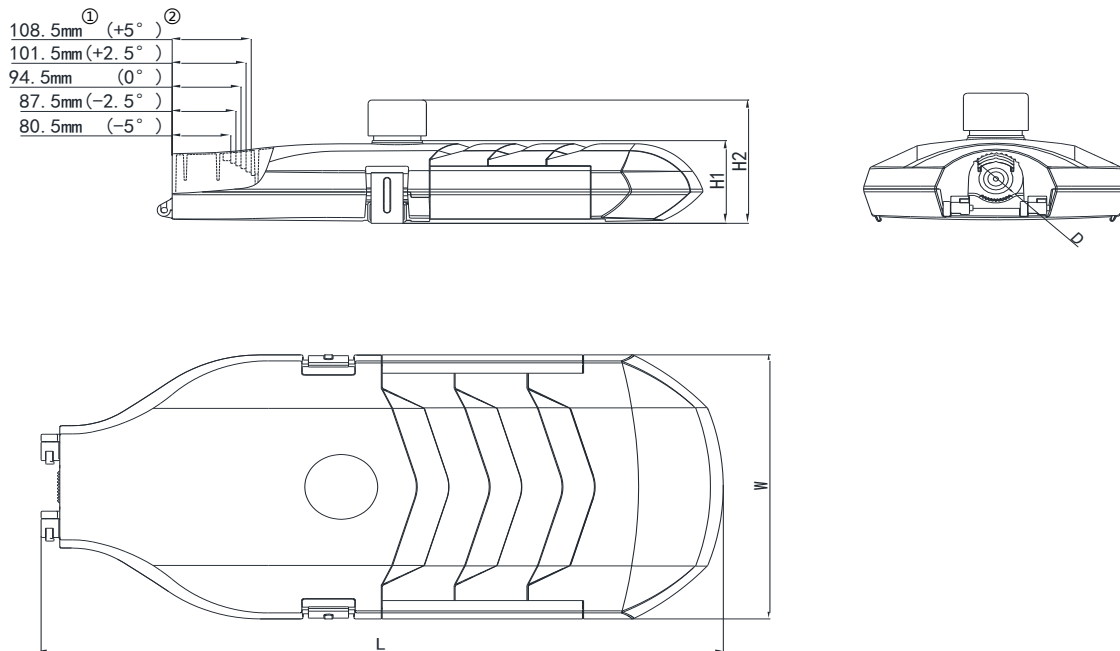


Design Features

- Internal Design Features



Dimensions



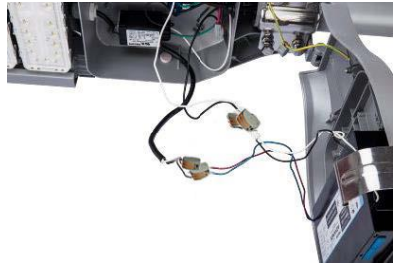
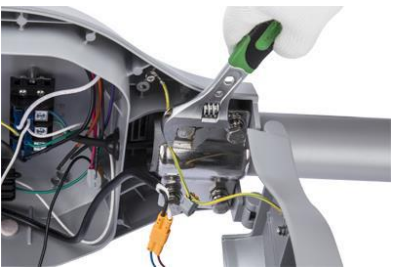




- Data sheet

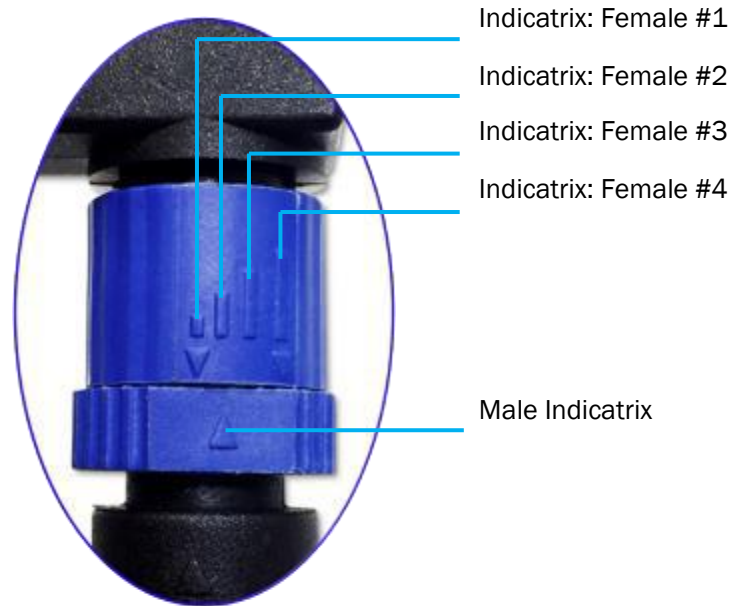
T20A	-1	-2	-3	-4	-5
L	670mm	670mm	750mm	830mm	910mm
W	325mm				
H1	120mm				
H2	180mm				
D	φ55-φ65mm				

- ① Installation Depth
- ② Tilt adjustment

Installation

		
<p>1. Open 2 latches ,then open the cover.</p>	<p>2. Insert the wire from the pole through the gland nut and insert the lamp pole to the lamp</p>	<p>3. Connect wires (black to voltage, white to common, green to ground) directly into the terminal block.</p>
		
<p>4. Adjust the lamp to required mounting position, fasten 4 screws on the mounting bracket with wrench.</p>	<p>5. Put inside wires in order, close the driver box cover and fasten it with 2 latches.</p>	<p>6. Installation finished.</p>

Connectors Operation Guide



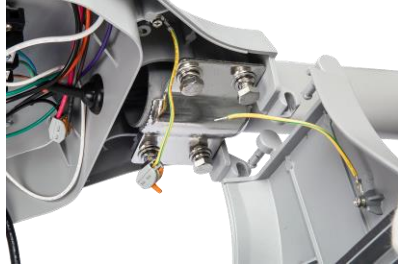
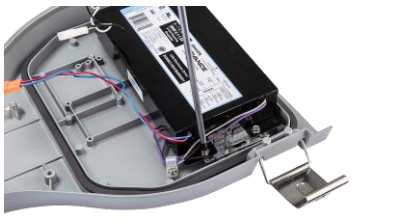



Spin the male terminal clockwise. When the male indicatrix points between indicatrix female #2 and #3, and the gap between male and female terminals is extremely small, the connectors are well connected; otherwise, there will be risks in its waterproof performance.

When the gap between male and female terminals is extremely small, if any looseness can be sensed, please spin the male terminal clockwise until tight.

Maintenance







Driver & Electrical Parts

		
<p>1. Open 2 latches, then open the cover.</p>	<p>2. Disconnect the quick connectors from the terminal block.</p>	<p>3. Disconnect the ground wire.</p>
		
<p>4. Undo the four M4x10 screws at the ends of the failed driver. Replace the failed driver with a new one.</p>	<p>5. Connect and tighten up each part back step by step. Maintenance finished.</p>	

Note: Disconnect wiring from the input and remove the lamp to the work table before maintenance.

Maintenance

Module

		
<p>1. Open the side beams outward with hands.</p>	<p>2. Loosen the M4×10 screws in both ends of optical module(s).</p>	<p>3. Get out the failed module.</p>
		
<p>4. Disconnect the waterproof connectors of module.</p>	<p>5. Replace with qualified module, connect the waterproof connectors.</p>	<p>6. Connect and tighten up each part back step by step. Maintenance finished.</p>

Note: Disconnect wiring from the input and remove the lamp to the work table before maintenance.

Ordering Information

Example: T20A-3-150GY-M1L1321-7-40-PH

Ordering Information	T 20A 3 - 150 GY - M1 L 1321 - 7 40 - PH										
	1	2	3	4	5	6	7	8	9	10	11
1. Luminary Type	T: Street light		TS: Tunnel light			TF: High bay light		FL: Flood light		GL: Garden light	
2. Luminary Series	1A	1B	1D	1F	2A	2C	3A	3B		
3. Module Qty	N: Non-modular luminary		1: 1 module		2: 2 modules		3: 3 modules		4: 4 modules		
4. System Power	10: 10W		20: 20W		30: 30W		40: 40W		50: 50W		
5. Housing Color	BK: Black		WH: White		GY: Grey		SR: Silver		BU: Blue		
	BUWH: Blue top & White base			BUGY: Blue top & Grey base			OTH: Other				
6. Module Series	Blank: Non-modular luminary				M1: M1 module		M2: M2 module		M5: M5 module		
7. LED Brand	X: Customized LEDs			L: LUMILEDS		C: CREE		O: OSRAM		N: NICHIA S: SAMSUNG	
8. Lens Code	3501	3100	3702	3910	2701	5703	3040	1812	1412		
9. CRI	6: ≥60		7: ≥70		8: ≥80		9: ≥90		OTH: Other		
10. CCT	30: 3000K		40: 4000K		50: 5000K		57: 5700K				
11. Driver Brand	MO: MOSO		MW: MEAN WELL		PH: PHILIPS		IN: INVENTRONICS		AD: ADAYO		OTH: Other

Revision History

Change Date	Rev.	Description of Change		
		Item	From	To
2016/07/26	Rev1.0	Datasheets Release	/	Add
2017/03/22	Rev1.1	External design	/	Add respiratory hole