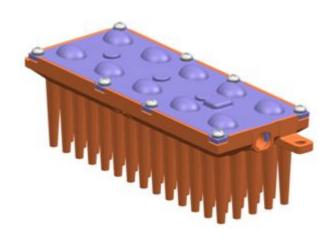
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LED Module

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SPECIFICATION



LED Module for Modular Platform Series			
Model Name LED Platform Module with Fin			
Tyma	CRI min. 70, 4000K, Flux Rank 3,		
Type	Type Ⅲ-M , 351Z PKG		
Parts No.	SL-P7T2E33MZWW		

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REVISION HISTORY OF SPECIFICATION

REV. NUM	REVISION	PAGE	DATE	TRACE D	APPROVED
1	The Preliminary specification established.	1~9	2014.09.15	-	S.A. Joo
2	Forward Voltage, Vf Changed	7	2015.03.03	-	S.A. Joo

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CONTENTS OF SPECIFICATION

1.	APPLICATION	4
2.	FUNDAMENTAL SPECIFICATIONS OF MODULE	6
3.	PARTS SPECIFICATIONS	7
4.	APPEARANCE AND STRUCTURE	8
5	PACKING SPECIFICATION	a

This is a product specification of SL-P7T2E33MZWW, one of SL-Puv2Ewaabcc. Please refer to relevant General and Special Application Notes for thermal, optical, electrical, mechanical design and reliability information.

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1. APPLICATION

Platform LED Module is designed as a core component in Modular Platform Engine Series for street light and flood light application. This document especially specifies Platform LED Module with Fin, generally recommended for luminaires with insufficient thermal management by the fixture itself.

1-1 Modular Platform Modules.

There are three different types of heat sink designs for Platform LED Module, intended for thermal management either by engine or by fixture.

This document especially specifies Platform LED Module with Fin for thermal management by Modules or Engines themselves



(a) Module with Fin [Thermal management by Module/Engine]



(b) Module without Fin [Thermal management by Fixture]

1-2 Modular Platform Engine Series

Typical operating current for one module is set at 700mA, which allows lumen output increment by 2100lm(nominal value) depending on the number of LED modules.

1-2-1 Lumen Packages with LED Driver

Power Consumption (Engine, Nominal)	Modules (ea)	Driver Output Channels (ea)	Operating Current (mA)	Lumen Output (Im)
25W	1	1	700	2100
50W	2	1	700	4200
75W	3	1	700	6300
100W	4	2	700	8400
150W	6	2	700	12600

^{*} This Module is recommended using a Isolated PSU.

1-2-2 Current Distribution across Modules

Current per module can vary depending on the Vf distribution of modules in parallel, deviating from the nominal operating current(700mA). The Vf distribution of modules is tightly controlled to achieve uniform driving currents.

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1-2-3 Optic Solutions

Application	Light Distribution	Solutions	Material
	IESNA Type I	Medium(1)	PC
Street Light	IESNA Type II	Short(1), Medium(1), Medium(2)	PC
	IESNA Type III	Medium(1)	PC
	IESNA Type IV	Medium(1)	PC
	IESNA Type V	Short(1)	PC
Flood Light	Medium	Batwing(BA85)	PC

 \divideontimes BA : Beam Angle, PC : Polycarbonate



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2. FUNDAMENTAL SPECIFICATIONS OF MODULE

Z. FU	MAUNI	ENTAL SF	ECIFICA	IIONS	OF M	ODULE	-		
No.	AF	RTICLE	SPECIFICATIONS						
	Photometric Specification of Platform LED Module @700r					700mA(stabili	zed at Tc~65℃)	
	CCT	Artic	cle	Symbol	MIN	TYP	MAX	Unit	Equipments
		Luminou	ıs Flux	LF	1950	2100	_	lm	Goniometer
	4000K	Color Tem	perature	CCT	3650	3900	4200	K	Integrating Sphere
		Color Rende	ring Index	CRI	70	-	_	Ra	Integrating Sphere
	※ Тур	oical values a	re not nece	essarily th	ne same	as the	nominal	value	S.
2-1	Light Distribution Profile: Type III Medium with Optimized IIIuminance Uniformity 1 1 1 1 1 1 1 1 1 1 1 1 1								
2-2	Dir	mension	· LED Mo	dule with	Fin : 1	50(L)×50)(W)×45.	02(H)	mm
2-3	 Veight LED Lighting Module : {0.28kg ± 0.03kg} * 12ea Total Weight (including packing box) : 4.8kg ± 0.5kg/1box 								
2-4	Operating Temperature Recommended Tc points as a function of number of modules are described in Thermal Application Notes.								
2-5	Storage Temperature -30° ~ +70° (Tc) ★ Ambient temperature without operation								

· IP66 for CE Marking

· Damp Location for UL Marking

Dust-proof Water-proof

2-6

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No.	ARTICLE	SPECIFICATIONS							
	Electrical Specification of Platform LED Module @700mA (stabilized at Tc~65℃)								
	Article	Symbol	MIN	TYP	MAX	Unit	Remarks		
	Power Consumption	Р	-	21	25	W	30V x 0.7A, module only		
	DC Forward Current	I	-	700	700	mA	per 1 Module [700mA /PKG 1EA,TYP.]		
	Forward Voltage	Vf	26.0	30.0	33.0	>	per 1 Module [3.0V/PKG 1EA, TYP.] 10 LEDs in Series		
Type Classification • Built-in module									
Eye Protection · Risk Group 2									
Working Voltage for Insulation • 50V ** The power consumption for a specific module is dependent on the operating distribution across the modules in parallel connection. The maximum operating means the highest limit in any operating condition.									
						on the operating voltage maximum operating current			
	* Typical and Maxim	um Opera	ting Cur	rent may	/ have =	±5% To	olerance		
Voltage difference between modules are tightly controlled to be less than 1.0V the maximum current of any module can be limited to 700mA. Voltage bins of will be designated on the module label and box label.						be less than 1.0V so that mA. Voltage bins of modules			
	 Safety and wiring information will be described in Electrical Application Notes. We recommend users to attach the surge protector to a PSU or to use a PSU that equipped surge protect circuit suitable for the user's atmosphere condition. 						Application Notes.		

3. PARTS SPECIFICATIONS

No.	ARTICLE	SPECIFICATIONS
3-1	Lens Cover	· Material : Stainless Steel with Teflon Washer
3-1	Screw	· Location : between the array lens and heat sink
		Material : Polycarbonate
		· Thickness : 2.0 mm
3-2	Array Lens Cover	· Lens Type : Type III-M
		· UL-94 Flammability: V-2
		Protective Equipment in Luminaries needs to prevent flaming drips.
3-3	Seal Rubber	· Material : Molded Silicone
		· LED : Ceramic PKG, CCT 4000K, CRI min. 70
3-4	LED Board	· Material : MCPCB, Aluminum
3-4 LED BOATU		· Thickness : 1.6 mm
		· Stainless Steel Screws : 3ea
	Side Inlet	• Material : Molded PVC coated with Sealant Silicone, 105℃ rating
3-5	Harness	· Wires: 24 AWG, 105℃ rating, 550 ^{mm} Length
3-6	Heat Sink	Material : Die-cast Aluminium
	(with Fin)	· Thermal Pad between the PCB and Heat Sink

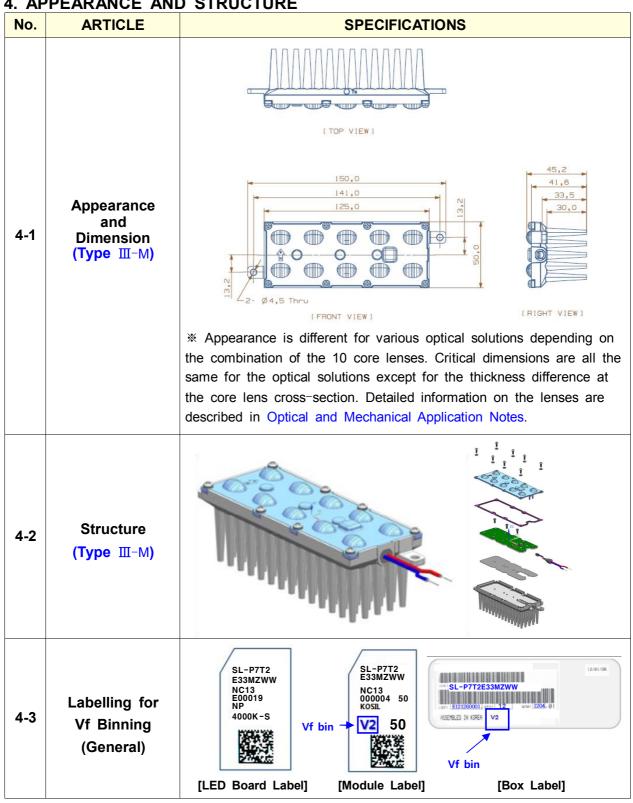
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4. APPEARANCE AND STRUCTURE



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5. PACKING SPECIFICATION

5-1 Packing Method

5-1-1 Inner Box: 6 modules of the same Vf bin in one inner box

6 PCs/Inner Box

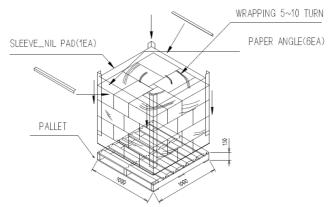


5-1-2 Outer Box: 12 modules on 2 stacks of inner boxes in one outer box

2 Stacks of Inner Boxes (419 x 240 x 189)



5-2 Pallet: 32 boxes(384 modules) on one pallet



* Two stacks of pallets are allowed.