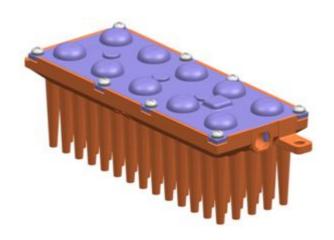


LED Module

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SPECIFICATION



LED Module for Modular Platform Series		
Model Name	LED Platform Module with Fin	
CRI min. 70, 5000K, Flux Rank 3,		
Туре	Type V-S, 351Z Ceramic	
Parts No.	SL-P7R2E35SZWW	

SAMSUNG ELECTRONICS CO., LTD.

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REVISION HISTORY OF SPECIFICATION

REV. NUM	REVISION	PAGE	DATE	TRACED	APPROVED
1	The First specification established.	1~9	2014.12.05	_	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-P7R2E35SZWW, 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

* BA : Beam Angle, PC : Polycarbonate

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2. FUNDAMENTAL SPECIFICATIONS OF MODULE

No.	ARTICLE SPECIFICATIONS								
	Photometric Specification of Platform LED Module @700mA(stabilized at Tc~65°C)					zed at Tc~65℃)			
	ССТ	Arti		Symbol		TYP	MAX	Unit	<u> </u>
		Luminou	ıs Flux	LF	1950	2100	-	lm	Goniometer
	5000K	Color Tem	perature	CCT	4650	5000	5300	K	Integrating Sphere
		Color Rende	ring Index	CRI	70	_	_	Ra	Integrating Sphere
	Ж Тур	oical values a	re not nec	essarily tl	ne same	as the	nominal	value	S.
	liabt F	Notribution F	rofilo . Tu	no V Ch	aut w.ith	Ontimi	مما الليسم	ninana	na Uniformitu
	Light L	DISTRIBUTION F	ronie : ry	pe v Sn	ort with	Optimiz	zea iliur	nınano	ce Uniformity
		X X X	250	12.70 0m	-16.0m -12.0m	-8.0m -4	.0m 0.0m	4.0m 8	3.0m 12.0m 16.0m 20.0m
2-1	105	1-12		105 8.0m			4 6	2	
	90			90 4.0m			8		4
	75 4.000								
	60		500	0.0m		2 4 8	10 12		
	750 4.0m 2								
	45 9999 45 -8.0m								
	1259 cd -12(0m² lax)								
	* The isolux diagram is drawn at the luminaire height of 5m.								
		 IES files(in IESNA or CIE format) are available with Optical Application Notes. 							
2-2		mension	• LED Module with Fin: 150(L)×50(W)×45.02(H) mm						
	Dii	11011011	· LED Lig			` '	` '		
2-3	V	Veight	_	•	-	•	•		
• Total Weight (including packing box) : 4.8kg ± 0.5kg/1bo									
			· Case Temperature : +10°C ~ +80°C (Tc ~ 65°C at Ta ~ 25°C)						
2-4	Operating Temperature								
	13.mp								
							ooint		
					•				mber of modules are
				bed in T		hbiicatio	II INOTES.		
2-5 Storage · -30 °C ~ +70 °C (Tc)									
2-5		perature		nt tempe					

· 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-							
	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							
	Forward Voltage	Vf	26.0	30.0	33.0	V	per 1 Module [3.0V/PKG 1EA, TYP.] 10 LEDs in Series	
	Type Classification	· Built-in module						
	Eye Protection	· Risk Group 2						
2-7	Working Voltage for Insulation	· 50V						
* The power consumption for a specific module is dependent on the opera distribution across the modules in parallel connection. The maximum oper 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 that the maximum current of any module can be limited to 700mA. Voltage I 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 equipped surge protect circuit suitable for the user's atmosphere condition.					U or to use a PSU that here condition.			

3. PARTS SPECIFICATIONS

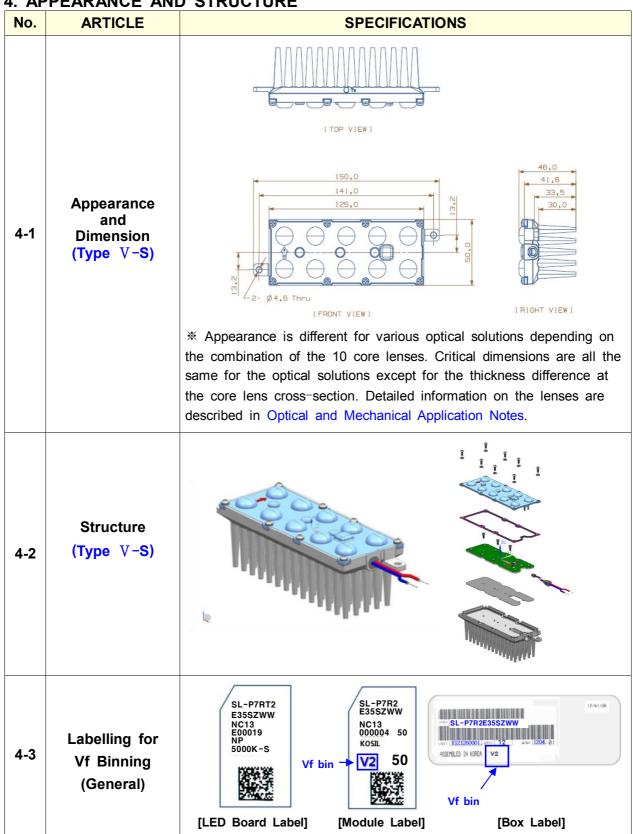
No.	ARTICLE	SPECIFICATIONS
3-1	Lens Cover Screw • Material : Stainless Steel with Teflon Washer • Location : between the array lens and heat sink	
		Material : Polycarbonate Thickness : 2.0 mm
3-2	Array Lens Cover	 Lens Type: Type V - S UL-94 Flammability: V-2 Protective Equipment in Luminaries needs to prevent flaming drips.
3-3	Seal Rubber	· Material : Molded Silicone
3-4	LED Board	 LED: Ceramic PKG, CCT 5000K, CRI min. 70 Material: MCPCB, Aluminum Thickness: 1.6 mm Stainless Steel Screws: 3ea
3-5	Side Inlet Harness	 Material: Molded PVC coated with Sealant Silicone, 105℃ rating Wires: 24 AWG, 105℃ rating, 550^{mm} Length
3-6	Heat Sink (with Fin)	Material : Die-cast Aluminium 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



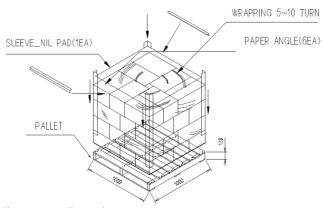
5-1-2 Outer Box: 12 modules on 2 stacks of inner boxes in one outer box

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.