mail

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	ED M	lodule fo	or Moo	dular Pla	atform Series						
Model N	lame	LED Pla	ED Platform Modulo without Fin								
		CRI min	n. 70, 3	3000K, F	ux Rank 3.						
Туре)	Beam A	ngle 85	5, 351B F	PKG						
Parts	No.	SL-P7V2	2 <mark>F3</mark> 85 <mark>B</mark>	KI							
		SAMS	SUNG								
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REVISION HISTORY OF SPECIFICATION

REV. NUM	REVISION	PAGE	DATE	TRACED	APPROVED
0.0	The Preliminary specification established.	1~9	2015.05.12	_	S.A. Joo
0.1	The First Specification Established	1~9	2015.06.03	-	S.A. Joo

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3. PARTS SPECIFICATIONS					7
4. APPEARANCE AND STRUCTURE					8
5. PACKING SPECIFICATION					9
6. Label Structure					. 10
This is a product specification of SL-P7V2F385BKI, on Please refer to relevant General and Special Applicatio mechanical design and reliability information.	ne of on No	SL-Puv2 otes for	vwaabo therma	cc. I, optical, e	electrical,

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1. APPLICATION

25W 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 25W 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 25W Platform LED Module, intended for thermal management either by engine or by fixture.

This document especially specifies 25W Platform LED Module without Fin for thermal management by Fixtures.



(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 **2000lm(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	2000
50W	2	1	700	4000
75W	3	1	700	6000
100W	4	2	700	8000
150W	6	2	700	12000

* 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
		IESNA Type II	Short(1), Medium(1), Medium(2)	PC
	Street Light	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. FL	JNDAM	ENTAL SP	PECIFICA	TIONS	OF M	ODUL	Ξ			
No.	AF	RTICLE			S	PECIFIC		S		
	Photon	netric Specif	ication of	Platform	LED M	odule @	700mA(stabiliz	zed at Tc~6	5℃)
	ССТ	Arti	cle	Symbol	MIN	TYP	MAX	Unit	Equipm	ents
		Luminou	us Flux	LF	1950	2100	-	lm	Goniometer	
	3000K	Color Terr	perature	CCT	2870	3000	3220	К	Integrating	Sphere
		Color Rende	ering Index	CRI	70	_	-	Ra	Integrating	Sphere
	≫ Тур	oical values a	ire not nece	essarily th	ie same	as the	nominal	values	3.	
	* Me	asurement to	lerance of lu	uminous fl	ux becoi	mes ± 7%	6 in the v	alue,		
	and	the measurer	nent toleran	ce of the c	color coc	ordinates	is ± 0.00	5.		
	Light F)iatributian I	Drofilo , Pa	om Angle	05 do	aroo with	o Ontimi	and III	uminonoo II	niformity
			180 IBO	am Angie		gree with	i Optimi	zea m	uminance U	mormity
2-1		90	150	XX		.0m -6.0m -4.	0m -2.0m 0.0m	2.0m 4.0m	n <u>6.0m 8.</u> 0m	
		105		At	105 6	.0m	1 6 11			
		90 27			90 4	.0m	16-2	26		
		75	150	X	75	.0m	21 31	36 11 41 16		
		60	300		60	.0m	26 46 56 16 41 51	51 21		
			450		4	.0m	11 26 41 3	6 31 6		
		45	600	X	45	.0m				
		X		X	c	.0m 90			V0H+	
		30	15 0	15 30	<u>اس</u> _6	0m ^{ie} C0			HOV-	
	≫ The	e isolux diagi	am is draw	n at the	luminair	e height	of 5m.			
	* IES	6 files(in IESI	NA or CIE	format) ar	e availa	ble with	Optical	Applica	ation Notes.	
2-2	Dir	mension	·LED Mo	dule with	out Fin	: 150(L)	×50(W)×	11.6(H)) mm	
2-3	, I.I.	Noight	・LED Lig	hting Mod	dule:{(<mark>.17</mark> kg ±	0.02kg}	* 24ea	a	
2-5	, v	veigint	· Total We	eight (incl	uding p	acking b	ox): <mark>5.4</mark>	kg ± ().6kg/1box	
			а т		-		00 %0			
			· Case Te	emperature	eic:	+10C ~	+90 C			
					L.s	, <u> </u>	to the	y =	U.	
2-4	O	perating				1	Tc point			
	1611	iperature	* Recor	nmended	Tc poin	ts as a	function	of nur	mber of mod	lules are
			descri	bed in Th	ermal A	pplicatio	n Notes.			
			X Tc sho	ould be me	easured	with reco	ommende	ed Heat	ishik.	
	~	torogo	•-30° ~	+70°⊂ (T	c)					
2-5	Tem	nperature	* Amhie	nt temper	∽, ature w	ithout or	peration			
		at_proof	• IPA6 for	CE Mark	cina vi					
2-6	Wa	si-proof ter-proof	• Damn I	ocation fo	or LII M	arkino				
		•	Dump L			annig				

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No.	ARTICLE			S	PECIFI	CATIO	NS
	Electrical Specification	on of Plat	form LE	ED Modu	ule (stat	oilized	at Tc~65℃)
	Article	Symbol	MIN	ТҮР	MAX	Unit	Remarks
	Power Consumption	Р	-	21	25	W	30V x 0.7A, module only
	Operating Current	lop	-	700	700	mA	per 1 Module [700mA /PKG 1EA,TYP.]
	Operating Voltage	Vdc	26.0	30	33.0	V	per 1 Module [3.0V/PKG 1EA, TYP.] 10 LEDs in Series
	Type Classification	• Built-in	module				
2-7	Eye Protection	• Risk G	roup 2				
	Working Voltage for	• 50V					
	 The power consum distribution across means the highest 	ption for a the module limit in ar	a specifi es in pa 1y opera	c module trallel co ting con	e is dep nnection dition.	endent . The i	on the operating voltage maximum operating current
	* Typical and Maxim	um Operat	ting Curr	rent may	/ have =	±5% To	olerance
	 Voltage difference the maximum curre will be designated 	between m ant of any on the mo	nodules module odule lat	are tight can be cel and !	ly contro limited box labe	olled to to 700r el.	be less than 1.0V so that mA. Voltage bins of modules
	* Safety and wiring i	information	will be	describe	ed in <mark>Ele</mark>	ectrical	Application Notes.
	We recommend us equipped surge pro	ers to atta stect circuit	ch the s t suitable	surge pro e for the	otector to user's	o a PS atmosp	SU or to use a PSU that where condition.
3. PA	RTS SPECIFICATI	ONS					
No.	ARTICLE			Ş	SPECIF		ONS
3-1	Lens Cover Screw	 Material Location 	l:Stain n:betw	less Ster een the	el with array le	Teflon \ ens and	Washer J heat sink
3-2	Array Lens Cover	 Material Thickne Lens Ty UL-94 F % Prote 	: Polyc ss : 2.0 /pe : Be Flammat ctive Equ	arbonate mm am Ang oility : V- uipment ir	; le 85 de 2 n Lumina	egree	eds to prevent flaming drips.
3-3	Seal Rubber	• Material	i: Molde	ed Silico	ne		
3-4	LED Board	 LED : (Material Thickne Stainles 	Ceramic : MCP ess : 1.6 es Steel	PKG, C CB, Alun mm Screws	CT 3000 ninum : 3ea	0K, CR	l min. 70
3-5	Side Inlet Harness	 Material Wires : Length([*]) 	24 AW 24 AW wires) :	ed PVC G, 105℃ 550 mm	coated rating	with Se	ealant Silicone, 105℃ rating
3-6	Heat Sink (without Fin)	 Material Therma 	l : Die-c I Pad br	ast Alum etween t	inium he PCB	and F	leat Sink

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. LABEL Struc	ture			
6-1 LED Board L	abel (1) SL-P7V2 F385BKI NC13 (3) P (5) 6 NP 3000K-S			
Number	Item	Descriptio	on	
1	Model Number (Product Code)	-		
2	SMT Date Code	year: A:00, B:01,H:07, I:08, month: 1,2,3,45,6,7,8,9,A,B,C day:01,02,03,04,05,31		
3	SMT Line	-		
4	Serial Number	00001 ~ 9999	9	
5	LED Binning Code	-		
6	CCT	3000K / 4000 K / 5	000 K	
7	LED Maker	S: Samsung		
6-2 Module Labe	1 (1) SL-P7V F385BK NC13 - (5) (6) KOSIL V2 (1) V2 (1) V2 (1) V2 (1) V2 (1) V2 (1) V2 (1) V2 (1) V2 (1) V3 (1) (1) (1) (1) (1) (1) (1) (1)	/2 11 30 30 4 30		
6-2 Module Labe	I () () () () () () () () () ()	2 30 30 30 Descriptio	on	
6-2 Module Labe Number	I I I I I I I I I I I I I I I I I I I	2 30 30 Description	on	
6-2 Module Labe	I U SL-P7V F385BK S O00004 S F300004 S Control S SL-P7V F385BK S SL-P7V F385BK S SL-P7V S SL-P7V SL-P7V SL-SL-P7V SL-SL-P7V SL-SL-P7V SL-SL-P7V SL-SL-P7V SL-P7V SL-P7V SL-SL-P7V SL-SL-P7V SL-SL-P7V SL-SL-P7V SL-SL-SL-SL-SL-SL-SL-SL-SL-SL-SL-SL-SL-S	2 30 30 30 30 30 30 30 30 30 30	<mark>on</mark>	
6-2 Module Labe	I U SL-P7V F385BK (3) NC13 O00004 (SSIL V2) (SU KOSIL V2) (SSIL (SSIL) (SSIL (SSIL)	2 30 30 30 2 30 30 30 30 30 30 30 30 30 30	DN 	
6-2 Module Labe	I U SL-P7V F385BK (S) (S) (CT) (S) (S) (S) (S) (S) (S) (S) (S) (S) (S	2 30 30 30 2 30 30 30 30 30 30 30 30 30 30	DN 19- 5000K	
6-2 Module Labe	I U SL-P71 F385BK (3) NC13 000004 (CSIL) (2) CON (CON (CON (CCT) Manufacturing Location	/2 30 30 30 30 30 30 30 30 30 30	DN 19- 5000K SIL (Factory)	

DATE OF ISSUE : June 03, 2015 P7V2F385BKI-0.1 Document No. REV.NO. PAGE **LED Module** SAMSUNG 11/11 0.1 6-3 Outer Box Label 15/01/11 -6 1)-SL-P7V2F385BKI LOT : E151115480 Q'TY : 12 W/W : 1501 01 2-ASSEMBLED IN KOREA 14 V1 3-4 5 Description Number Item 1 Model Number (Product Code) -2 Lot No. Factory Code (2) + Production Date (4) + Serial No. (4) 3 Country of Origin KOREA (4) Packing Quantity 24 pc (5) yyww Production Date (year/week#) 6 yy/mm/dd Label Printing Date (year/month/date)