

SAMSUNG

LED Module

Document No. P7T2E22S3EU-00

DATE OF ISSUE : February 05, 2014

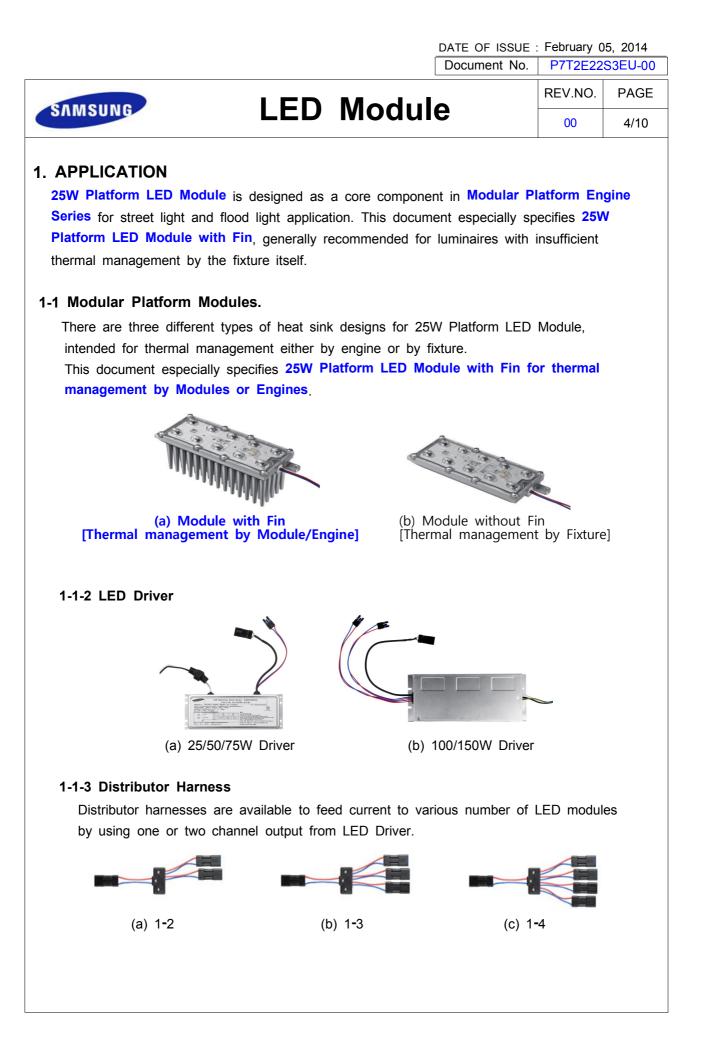
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REVISION HISTORY OF SPECIFICATION

REV. NUM	REVISION	PAGE	DATE	TRACED	APPROVED
0	The first specification established.	1~10	2014.02.04	_	S.A. Joo

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This is a product specification of SL-P7T2E22S3EU, on Please refer to relevant General and Special Applicatio mechanical design and reliability information.			electrical,



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1-2 Modular Platform Engine Series

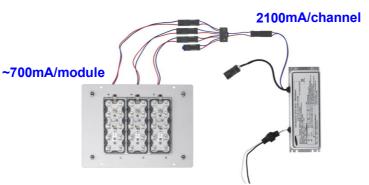
Typical operating current for one module is set at 700mA, which allows lumen output increment by **2000lm(nominal value)** depending on the number of LED modules.

1-2-1 Lumen Packages with LED Driver(Engine : 80lm/W)

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

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.



1-2-3 Optic Solutions

Application	Light Distribution	Solutions	Material
	IESNA Type I	Short(1), Medium(1)	PC
	IESNA Type II	Short(2), Medium(2)	PC
Street Light	IESNA Type III	Short(2), Medium(2)	PC
	IESNA Type IV	Short(2), Medium(1)	PC
	IESNA Type V	Short(1), Medium(1)	PC
	Narrow	Circular(BA15/25/40)	PC
Flood Light	Medium	Circular(BA50/65), Rectangular(BA50x80), Batwing(BA85)	PC
	Wide	Circular(BA100), Batwing(BA120) Rectangular(BA90x130)	PC

* BA : Beam Angle, PC : Polycarbonate

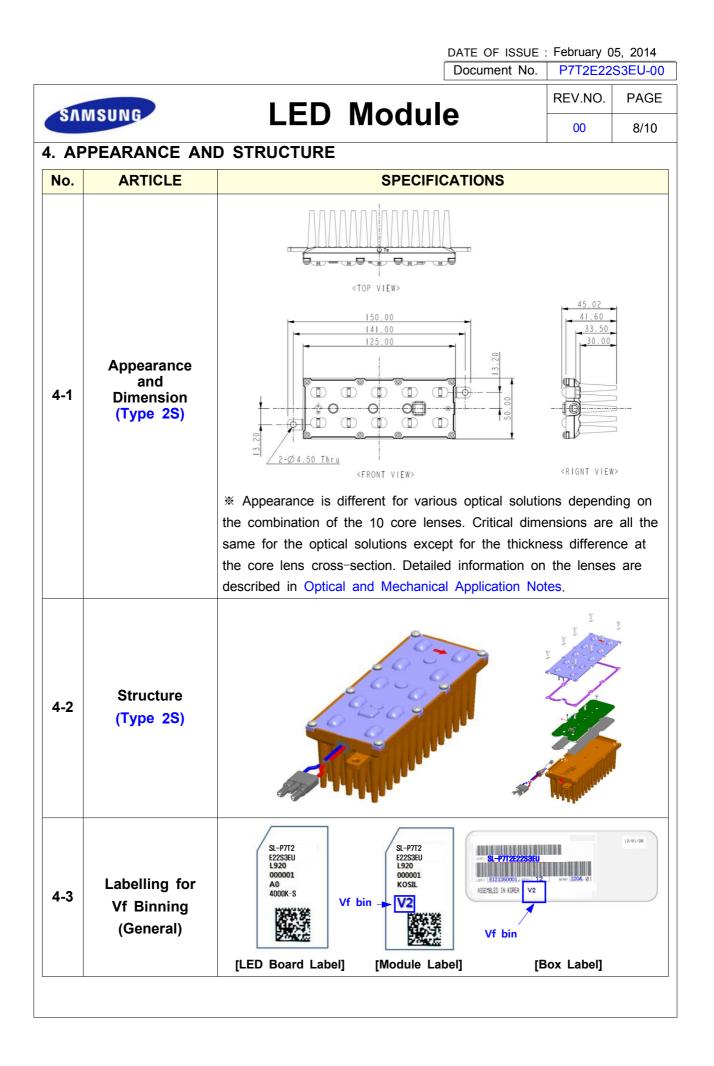
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		NTAL SP	ECIFICA	TIONS						
No.		RTICLE	fication of	Platform		PECIFIC			zed at Tc~6	5ຕ)
	ССТ	Arti		Symbol		TYP	MAX	Unit	Equipmo	
		Lumino	us Flux	LF	1750	1950	_	lm	Goniometer	
	4000K	Color Ten	nperature	ССТ	3710	4150	4530	К	Integrating	Sphere
		Color Rende	ering Index	CRI	70	_	_	Ra	Integrating	Sphere
	≫ Тур	oical values a	are not nec	essarily t	he same	as the	nominal	values	5.	
	Light D	Distribution	Profile:Ty	pe II Sh	ort with	Optimiz	ed Illur	ninanc	e Uniformity	y
	Gam	ma Angles 180	, //X	120 12:20.0m	1 -16.0m -12	0m -8.0m -	4.0m Road 0.0m	4.0m 8.0	0m 12.0m 16.0m	20.0m
2-1	105			105 8.0m						
	90	5		90 4.0m	(2 3 4 5	6 7	2	
	75			75 0.0m		5 4 7 8	13 11 16 19 10 11 12 12 20	9 10 8	3	
	60	X/H	1200	60		2	15 14 13	12 6		
	45 180 200	20 0	400	45 45 -8.0m			1	3 2		Volt+
	30	15 0	15	-12,0m ^a	-c0		Pavement		но	lux
	* The	e isolux diag	ram is draw	n at the	luminair	e height	of 5m.			
	× IES	6 files(in IES	NA or CIE	format) a	re availa	ble with	Optical	Applic	ation Notes.	
2-2	Dir	mension	· LED Mo	dule with	Fin : 1	50(L)× <mark>50</mark>	(W)×45.	<mark>02</mark> (H)	mm	
2-3	v	Veight	• LED Lig	-	•	-	•••			
				U (• •	•	,		0.5kg/1box	°~)
			· Case Te	emperatur	e : +10	C ~ +80) C (IC	~ 65 C	at Ta ~ 25	C)
2-4		perating		-		36	9 E			
	Temperature					TIMO P		I LAND MERCY	f.e.	
						Tc p	oint			
			* Recor	nmended	Tc poin	ts as a	function	of nur	mber of mod	lules are
			descri	bed in T	nermal A	pplicatio	n Notes	•		
2-5		torage	·-30℃~	``	,					
	Terr	nperature	※ − 30 °C	· amhiar	nt tomno	rature wi	ithout op	peration	า	
			-	. ambiei	it tempe					
2-6		st-proof ter-proof	・IP66 for ・Damp L	CE Mar	king					

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No.	ARTICLE			S	PECIFI	САТІО	NS				
	Electrical Specification	on of Plat	form LE	ED Mod	ule (stal	bilized	at Tc~65	ະ)			
	Article	Symbol	MIN	TYP	MAX	Unit		Remarks			
	Power Consumption	Р	-	21	-	W	30V x 0	.7A, module only			
	Operating Current	Іор	-	700	1000	mA		per 1 Module [700mA /PKG 1EA,TYP.]			
	Operating Voltage	Vdc	28.0	30	33.0	V	[3.0V/PK	per 1 Module [3.0V/PKG 1EA, TYP.] 10 LEDs in Series			
2-7	Electrical Circuit	Maximum of 4 modules can be in parallel connection with one									
		LED drive	er chanr	nel of a	UL clas	s 2 pov	wer supply	/ unit.			
	distribution across	The power consumption for a specific module is dependent on the operating voltage distribution across the modules in parallel connection. The maximum operating current means the highest limit in any operating condition.									
	the maximum curre	difference between modules are tightly controlled to be less than 1.0V so that imum current of any module can be limited to 850mA. Voltage bins of modules lesignated on the module label and box label, described in Electrical									

* Safety and wiring information will be described in Electrical Application Notes.

3. PARTS SPECIFICATIONS

rial : Stainless Steel with Teflon Washer ion : between the array lens and heat sink rial : Polycarbonate ness : 2.0 mm Type : Type 2S rial : Molded Silicone
rial : Polycarbonate ness : 2.0 mm Type : Type 2S
ness : 2.0 mm Type : Type 2S
Type : Type 2S
ial : Molded Silicone
: Ceramic PKG, CCT 4000K, CRI min. 70
ial : MCPCB, Aluminum
ness : 1.6 mm
ess Steel Screws : 3ea
ial : Molded PVC coated with Sealant Silicone, 105 $^\circ\!\!\!\!^\circ$ rating
: 24 AWG, 105℃ rating
h(wires) : 550 mm
ector Plug : IP66(minimum)
ial : Die-cast Aluminium



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5. PACKING SPECIFICA 5-1 Packing Method					
5-1-1 Inner Box:6 mod	lules of the sar	ne Vf bin in on	e inner box		
6 PCs/Inner Box					
5-1-2 Outer Box : 12 m	odules on 2 sta	cks of inner bo	oxes in one ou	iter box	
2 Stacks of Inner Boxes (419 x 240 x 189)			Read Group 2 The Arrow of the	S-2772233500 S-2772233500 S-2772233500 S-2772233500 S-2772233500 S-2772233500 S-277223500 S-2772500 S-2772500 S-2772500 S-2772500 S-2772500 S-27700 S-2772500 S-2772500 S-2772500 S-277000 S-277000000000000000000	210 🗠
5-2 Pallet:32 boxes(384 m	odules) on one	pallet			
	NIL PAD(1EA)		PING 5~10 TURN PER ANGLE(6EA)		
※ Two stacks of pallets a	re allowed.				

