

SPECIFICATION

MODEL : LX-ECO SERIES-W

Powered by **LG Innotek**

	Supplier		Customer
	Written by	Approved by	Approved by
CHECKED			

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1. Characteristic

Most Preferred Best seller LED module solution (CE, UL Certified)

High luminosity & Compact design.

Long life LEDs last for year (20,000 hours)

SMD LED mounted (Made in Korea)

Slight current drop through wire to wire connection (vs. Soldering)

Max. 50 modules in series

Reasonable price for your best business competitiveness.

120° viewing angle creates more uniform backlighting effects and better silhouettes.

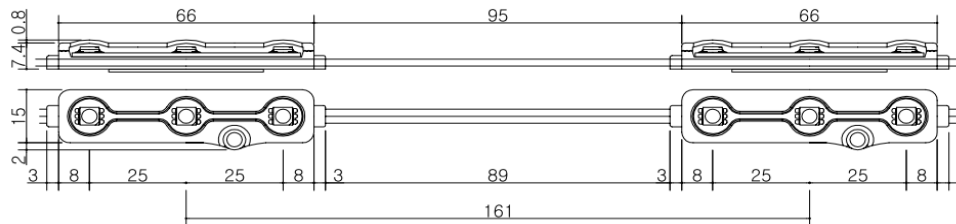
Enhanced Function

- Evolution to Sophisticated & Innovative design
- Specialized design for Perfect Humid & Waterproof (Enhanced IP68)
- Better LED protection with Lens covered design from luminosity degradation caused by yellowing
- (Adhering) Screw built-in for easy and quick installation
- Effective Quality Control with a Tracing system (Production date marking)

Product 2. ECO3S-W



Dimension



Specification

Item	Value	Unit
	W	
Power Dissipation	0,72	Watt
Forward Voltage	12	VDC
Forward Current	60	mA
Luminous intensity	18000	mcd (Typ.)
Luminous intensity	58	lm (Typ.)
Lumen/Watt	80	lm/W
CCT(K)	8000	Kelvin
Wave Length	455	nm
CRI	70	%
Viewing angle	120°	°
L E D / Module Pitch	25 / 161	mm
Size	72*17*8.2	mm
Weight	10	g
Max in series	50	EA
Operating Temp	-20 ~ 60	°C
Storage Temp	-30 ~ 70	°C
Waterproof	IP68	
Life Time	20000	Hour
Cable	UL, AWM2468 300V/80	
Case materials	UL, ABS-HI121, HB-class	

LED Specification



Absolute Maximum Ratings

Items	Symbol	Ratings	Unit
Forward Current	I_F	80	mA
Pulse Forward Current ^{**1)}	I_{FP}	150	mA
Power Consumption	P_D	272	mW
Operating Temperature	T_{opr}	-30 ~ +85	°C
Storage Temperature	T_{stg}	-40 ~ +100	°C
Junction Temperature	T_j	< 110	°C

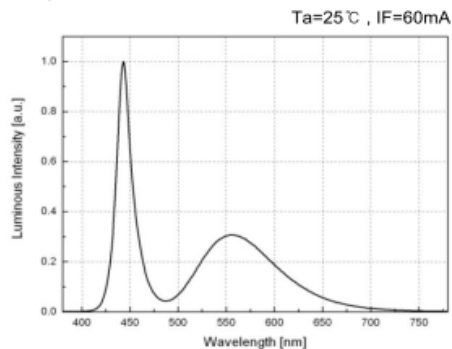
*1) Pulse Width ≤ 30msec, Duty ≤ 10%

Electro – Optical – Thermal Characteristics

($T_a=25^\circ\text{C}$)

Items	Symbol	Condition	Min	Typ	Max	Unit
Forward Voltage	V_F	$I_F=60[\text{mA}]$	3.0	-	3.4	V
Reverse Voltage ^{**1)} (Zener Diode)	V_R	$I_R=10[\text{mA}]$	0.6	-	1.2	V
Luminous Flux	Φ_v	$I_F=60[\text{mA}]$	20	21		lm
Luminous Intensity	I_v	$I_F=60[\text{mA}]$	6.4	6.7		cd
CIE Value	X / Y	$I_F=60[\text{mA}]$	Refer to '6. Rank Sorting Method'			-
Viewing Angle	$2\theta_{1/2}$	$I_F=60[\text{mA}]$	-	120	-	deg
Color Rendering Index	R_a	$I_F=60[\text{mA}]$	60	-	-	-

■ Spectrum



■ Radiation Characteristics

