

Joy to you! Sense of Light

NC LED



Why NC LED?

- Market share leader in LED sales in Korea
- Largest LED production capacity in Korea (with improvements to 4M / year in 2012)
- Full range of products with varied price & performance to meet your needs
- Fully served turn-key operation from design to packaging
- State-of-Art product testing and QC processes
- Constant product innovation with intensive R&D investment
- Nearly ZERO defect rate with automated production facility

CE / UL certified

ISO 9001 : 2008 (Qualified facility)



Get your market successfully with NC LED !

As a leading manufacturer of high-quality LED modules in Korea, NC LED has gained high market shares and accumulated good reputation and credibility by offering excellent quality products at a competitive price and prompt customer service. We began producing products for the European, Japanese and North American markets in 2009. Further, we've been attempting to satisfy customer demands by providing products of the best possible quality at a competitive price. NC LED takes responsibility for the entire manufacturing process of "Design to Package" including product QC, in order to provide better quality products by effective process management.

Business Area

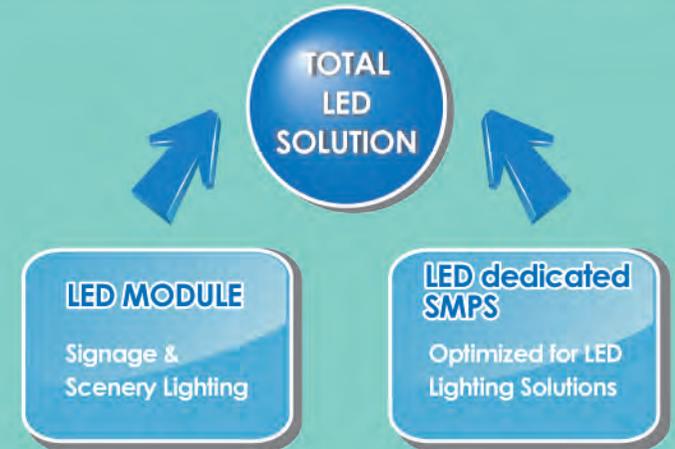
LED Module for Signage

We proudly offer various types of LED modules such as constant-current modules, non-polar modules and resistant type of modules, etc., which satisfy the customer's various requirement for market characteristics.

Constant Voltage SMPS

To provide NC LED's Constant-voltage SMPS will be the best solution which can offer better optimized LED application environment to our customers.

The Secure Choice for Eco-friendly LED Solutions !



All the products from NC LED are technically developed and intensively tested and inspected!

- KS Q ISO 9001 : 2009 certified Facilities
- Full production line from DESIGN to PACKAGE
- Monthly Capacity : 3 million units in current, projected 4 million units within year 2012
- Automated production line since the year 2010
- OEM production is available for mass quantity order
- Technical competitiveness
 - CE / UL Approved for global marketing
 - 5 Patents resistered for LED Modules and Brand name
 - IP68 for perfect waterproofing

NC LED
NAMYANGJU FACTORY



Automated Facility
ISO 9001 : 2008



Chamber test

- ✓ Thermal Resistance test
- ✓ Low-temperature Resistance test
- ✓ Humidity Resistance test



Test temperature range for Operation :
-20°C to 70°C
Test humidity range for operation :
85% on the temperature over 25°C

LX-ECO Series

Product Features

The best solution for the price-sensitive market



- Resistance type of stabilized module
- Innovative new design
- 5% improved LED Luminosity compared with current product
- Solleds/ LG/ Samsung LED is available
- Perfect waterproof with cover lens (IP68)
- Improved LED Protection from other external environment
- Adhering screw built-in for easy and quick installation
- Easy recognizable for production date



LX-ECO4-W



LX-ECO3S-W



LX-ECO2S-W



Specification

Product No.	LX-ECO4 Square type 3 Chip LED					LX-ECO3S 3 Chip LED					LX-ECO2S 3 Chip LED				
	W	R	G	B	Y	W	R	G	B	Y	W	R	G	B	Y
Operating Power	DC 12V					DC 12V					DC 12V				
Power Dissipation	0.96W					0.72W					0.48W	0.36W	0.48W	0.48W	0.48W
Current Dissipation	80mA					60mA					40mA	30mA	40mA	40mA	40mA
Max. Series connection	50 modules					50 modules					50 modules				
Modules for 60W NC SMPS	56 modules					75 modules					113 modules				
Dimensions	46L x 40W x 8.2H mm					72L x 17W x 8.2H mm					44L x 15W x 8.2H mm				
Weight	13g					10g					7g				
Viewing Angle	120°					120°					120°				
LED Spec.	50,000hr rated life time Samsung/ LG/ Solleds (made in Korea)					50,000hr rated life time Samsung/ LG/ Solleds (made in Korea)					50,000hr rated life time Samsung/ LG/ Solleds (made in Korea)				
Luminous intensity(mcd)	24,000	8,400	14,400	3,200	8,400	18,000	6,200	10,800	2,400	6,300	12,000	4,200	7,200	1,600	4,200
Luminous intensity(lm)	72	24	40	9	24	54	18	30.5	6.8	18	36	12	20	4.5	12
Dominant Wavelength(nm)	455	625	530	460	590	455	625	530	460	590	455	625	530	460	590
Standard Color Temperature	8,000 6,500	-	-	-	-	8,000 6,500	-	-	-	-	8,000 6,500	-	-	-	-
Module connection & Cuttability	Wire to Wire Series connection, every module					Wire to Wire Series connection, every module					Wire to Wire Series connection, every module				
Recommended Channel Height	Min. 80mm					Min. 80mm					Min. 80mm				
Operating Temperature	-20°C~ 60°C					-20°C~ 60°C					-20°C~ 60°C				
Storage Temperature	-30°C~ 70°C					-30°C~ 70°C					-30°C~ 70°C				
Waterproofing rate	IP68					IP68					IP68				
Cable	UL, AWM2468 300V/80°C					UL, AWM2468 300V/80°C					UL, AWM2468 300V/80°C				
Case Materials	UL, ABS-HI121, HB-class					UL, ABS-HI121, HB-class					UL, ABS-HI121, HB-class				

* Specification subject to change without notice

* All the luminosity data for white color is evaluated based on 8000 Kelvin color temperature, 3chip LED (SOLLEDS)

* Samsung LED/ LG Innofek(1chip LED) requirement should be announced with order confirmation



LX-HLC Series

Joy to you! Sense of Light NC LED

Product Features

High-end LED module solution



- Constant Current Drive – Fully warranted Stability with High energy efficiency
- Constant Luminosity & Current flow
- Efficient Heat release with double-sided PCB design
- Sophisticated & innovative new design
- 5% improved LED Luminosity compared with current product
- Solleds/ LG/ Samsung LED is available
- Perfect waterproof with cover lens (IP68)
- Improved LED Protection from other external environment
- Adhering screw built-in for easy and quick installation
- Easy recognizable for production date



LX-HLC4-W



LX-HLC3S-W



LX-HLC2S-W



Nationwide SK mobile shops in Korea

Specification

Product No.	LX-HLC4 Square type 3 Chip LED					LX-HLC3S 3 Chip LED					LX-HLC2S 3 Chip LED				
	W	R	G	B	Y	W	R	G	B	Y	W	R	G	B	Y
Operating Power	DC 12V					DC 12V					DC 12V				
Power Dissipation	0.96W					0.72W					0.48W				
Current Dissipation	80 mA					60 mA					40 mA				
Max. Series connection	50 modules					50 modules					50 modules				
Modules for 60W NC SMPS	56 modules					75 modules					113 modules				
Dimensions	46L x 40W x 8.2H mm					72L x 17W x 8.2H mm					44L x 15W x 8.2H mm				
Weight	13g					10g					7g				
Viewing Angle	120°					120°					120°				
LED Spec.	50,000hr rated life time Samsung/ LG/ Solleds (made in Korea)					50,000hr rated life time Samsung/ LG/ Solleds (made in Korea)					50,000hr rated life time Samsung/ LG/ Solleds (made in Korea)				
Luminous intensity(mcd)	24,000	8,400	14,400	3,200	8,400	18,000	6,200	10,800	2,400	6,300	12,000	4,200	7,200	1,600	4,200
Luminous intensity(lm)	72	24	40	9	24	54	18	30.5	6.8	18	36	12	20	4.5	12
Dominant Wavelength(nm)	455	625	530	460	590	455	625	530	460	590	455	625	530	460	590
Standard Color Temperature	8,000 6,500	-	-	-	-	8,000 6,500	-	-	-	-	8,000 6,500	-	-	-	-
Module connection & Cuttability	Wire to Wire Series connection, every module					Wire to Wire Series connection, every module					Wire to Wire Series connection, every module				
Recommended Channel Height	Min. 80mm					Min. 80mm					Min. 80mm				
Operating Temperature	-20°C~ 60°C					-20°C~ 60°C					-20°C~ 60°C				
Storage Temperature	-30°C~ 70°C					-30°C~ 70°C					-30°C~ 70°C				
Waterproofing rate	IP68					IP68					IP68				
Cable	UL, AWM2468 300V/80°C					UL, AWM2468 300V/80°C					UL, AWM2468 300V/80°C				
Case Materials	UL, ABS-HI121, HB-class					UL, ABS-HI121, HB-class					UL, ABS-HI121, HB-class				

* Specification subject to change without notice

* All the luminosity data for white color is evaluated based on 8000 Kelvin color temperature, 3chip LED (SOLLEDS)

* Samsung LED/ LG Innotek(1chip LED) requirement should be announced with order confirmation



EPOXY Type ECO/HLC Series

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Product Features

General type of LED Module  

- HLC Series : Perfect stability with Constant current drive
- ECO Series : Constant voltage module with resistance
- Constant luminosity for 50modules in series
- Efficient Heat release with specialized PCB design
- Reverse current protection
- SMD LED mounted (SAMSUNG / SOLLEDS) with long life time
- IP68 – Highest level of Water & Dust protection
- Green products free from any hazardous substances



ECO / HLC3-W



ECO / HLC2-W



ECO / HLC1-W

LED MODULE APPLICATION



Specification

Product No.	ECO3/ HLC3 3 Chip LED					ECO2/ HLC2 3 Chip LED					ECO1/ HLC1 3 Chip LED				
	W	R	G	B	Y	W	R	G	B	Y	W	R	G	B	Y
Operating Power	DC 12V					DC 12V					DC 12V				
Power Dissipation	0.72 W					0.48 W (ECO2: 0.36W)					0.24 W				
Current Dissipation	60 mA					40 mA (ECO2: 30 mA)					20 mA				
Max. Series connection	50 modules					50 modules					100 modules				
Modules for 60W NC SMPS	75 modules					113 modules					225 modules				
Dimensions	96L x 15W x 7H mm					66L x 15W x 7H mm					38L x 15W x 7H mm				
Weight	13g					9g					4g				
Viewing Angle	120°					120°					120°				
LED Spec.	50,000hr rated life time Samsung/ LG/ Solleds (made in Korea)					50,000hr rated life time Samsung/ LG/ Solleds (made in Korea)					50,000hr rated life time Samsung/ LG/ Solleds (made in Korea)				
Luminous intensity(mcd)	18,000	6,300	10,800	2,400	3,600	12,000	4,200	7,200	1,600	2,400	6,000	2,100	3,600	800	1,200
Luminous intensity(lm)	54	18	30.5	6.8	10.8	36	12	20	4.5	7.2	18	6	10	2.3	3.6
Dominant Wavelength(nm)	455	625	530	460	-	455	625	530	460	-	455	625	530	460	-
Standard Color Temperature	8,000 6,500	-	-	-	-	8,000 6,500	-	-	-	-	8,000 6,500	-	-	-	-
Module connection & Cuttability	Wire to Wire Series connection, every module					Wire to Wire Series connection, every module					Wire to Wire Series connection, every module				
Recommended Channel Height	Min. 80mm					Min. 80mm					Min. 80mm				
Operating Temperature	-20°C~ 60°C					-20°C~ 60°C					-20°C~ 60°C				
Storage Temperature	-30°C~ 70°C					-30°C~ 70°C					-30°C~ 70°C				
Waterproofing rate	IP68					IP68					IP68				
Cable	UL, AWM2468 300V/80°C					UL, AWM2468 300V/80°C					UL, AWM2468 300V/80°C				
Case Materials	ABS housing + Ductile Epoxy Treatment					ABS housing + Ductile Epoxy Treatment					ABS housing + Ductile Epoxy Treatment				

* Specification subject to change without notice

* All the luminosity data for white color is evaluated based on 8000 Kelvin color temperature, 3chip LED (SOLLEDS)

* Samsung LED / LG Innotek(1chip LED) requirement should be announced with order confirmation



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RGB series

Full-color Dimming RGB LED Module solution

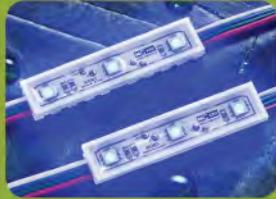
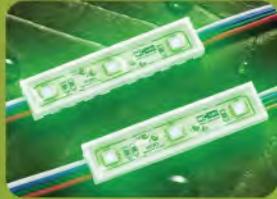
- 16 Million full color expression • 3chip-in-1 SMD LED lamp mounted, natural color mixture available
- "Fully warranted Stability" with High energy efficiency
- Constant Current Drive for RGB4
- Efficient Heat release with double-sided PCB design • Reverse current protection
- 50,000hours of Long lifetime • IP68 - Highest level of Water & Dust protection
- Green products free from any hazardous substances



RGB3



RGB4



Specification

Product No.	RGB4 Square type	RGB3 Bar type
Operating Supply	DC 12V	DC 12V
Power Dissipation	1.2W	0.72 W
Dissipation Current	100mA	60mA
Max. series connection	50 modules	50 modules
Dimensions	45L x 45W x 8H mm	66L x 15W x 7H mm
Weight	22g	13g
Viewing Angle	120°	120°
Luminous intensity(mcd)	R:2400 / G:4800 / B:1200	R:1800 / G:3600 / B:900
Dominant Wavelength	R:625 / G:525 / B:465	R:625 / G:525 / B:465
Module connection	Wire to Wire (Series connection)	Wire to Wire (Series connection)
Channel Height	Min. 80mm	Min. 60mm
Operating Temperature	-20°C~ 60°C	-20°C~ 60°C
Storage Temperature	-30°C~ 70°C	-30°C~ 70°C
Waterproofing	IP68(IEC60528)	IP68(IEC60528)
Cable (UL Standard)	awg18, 1007-SPT-1	awg18, 1007-SPT-1
Materials	ABS + Ductile Epoxy Treatment	ABS + Ductile Epoxy Treatment



LED MODULE APPLICATION

* Specifications subject to change without notice

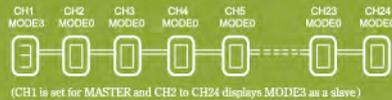
CTM-300

RGB Dimming Control System

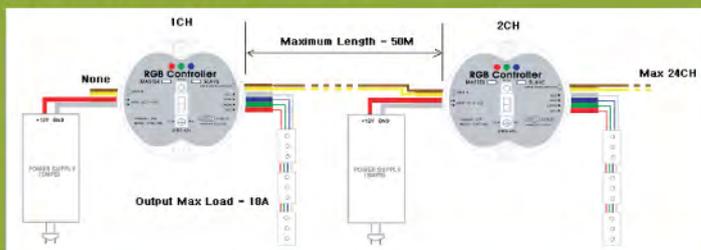


Features

- RGB dimming controller
- 9 possible dimming mode control
- Alternative to MASTER / SLAVE
- Dimming speed control available
- Compact size, Easy installation
- Visible status through LED lamp
- Various display up to 24CH with RS485 communication
- Stop function in the desired color during display
- Slave follows the Master's display mode, select "MODE 0 (Zero)" for Slave



System Composition



Specification

Title	Spec	Unit
OUT PUT	12	DCV
Dissipation Current	90	mA
Dimension	70ø * 13	mm
Weight	70	g
Operating temperature	-20~+60	°C
Waterproofing	IP67	
Protocol	NC's own Protocol	
Mem Memory	8	Kbyte
Channel	1	CH
Permitted Current Limit	18	A
M RGB3 (0.72W)	300	EA
Max.Connectable Unit		

* Specifications subject to change without notice



Joy to you! Sense of Light NC LED

MINI Series

Products Features Specialized for very low and narrow channel letter

- Compact design with Ultra small size
- High efficiency, High luminosity (60 lm/w)
- Constant luminosity through minimizing voltage drop (-0.14V at the last 50pcs)
- 20mA*3EA, 3528 SMD LED mounted (Patent Free)
- 120° Viewing angle creates better silhouettes with even light distribution
- Durable epoxy resin fill for waterproof rating with IP68
- 12V DC operation requires a constant voltage Power supply (Provided separately)



MINI3-W



MINI3-R



MINI3-G

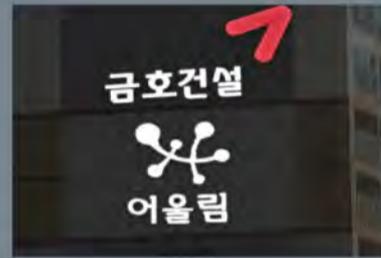


MINI3-B



Specification

Product No.	[MINI 3]				
Color	W	R	G	B	Y
Operating Power	DC 12V				
Power / Current Dissipation	0.24W, 20mA				
LED Spec	120 Viewing angle, 50,000hr rated life, made in Korea				
Luminous intensity(lumen)	15	5.5	10.5	2.4	5.5
Dominant Wavelength	—	625	525	460	590
Standard Color Temperature	12,000/8000/6500K	—	—	—	—
Module connection & Cuttability	Wire to Wire Series connection, every module				
Recommended Channel Height	Min. 30-35mm				
Operating Temperature	-20 C~ 50 C				
Storage Temperature	-30 C~ 70 C				
Waterproofing rate	IP68				
Cable	AWG22 * 2C				
Case Materials	ABS housing + Ductile Epoxy Treatment				



PRODUCTS GUIDE

What is your Smart choice for perfect application ?

Product	Newly Lunched Lens Type		General Epoxy Type			
	LX-ECO Series	LX-HLC Series	ECO Series	HLC Series	MINI Series	AC Series
Features	<ul style="list-style-type: none"> • Economic solution • Minimizing current loss • Newly changed innovative design • Protection enhanced • 3M Tape attached 	<ul style="list-style-type: none"> • Best Stability for High-end market • Constant brightness • Newly changed innovative design • Protection enhanced • 3M Tape attached 	<ul style="list-style-type: none"> • Economic solution • Minimizing current loss • 3M Tape attached 	<ul style="list-style-type: none"> • Best Stability for High-end market • Constant brightness • 3M Tape attached 	<ul style="list-style-type: none"> • Special Application • Compact design • 3M Tape attached 	<ul style="list-style-type: none"> • Special Application • Convenient connection • Safety protection built-in from fire incident • 3M Tape attached
Application	Resistance Tech.	Constant current Tech.	Resistance Tech.	Constant current Tech.	Resistance Tech.	Constant current Tech.
Application	All type of Channel Letter	All type of Channel Letter	All type of Channel Letter	All type of Channel Letter	Specialized for small sized Epoxy Channel letter	All type of Channel Letter Stable power provided country
Recommended Channel height	Min. 80mm	Min. 80mm	Min. 80mm	Min. 80mm	Min. 30-35mm	Min. 80mm
Connection	Wire to wire connection	Wire to wire connection	Wire to wire connection	Wire to wire connection	Wire to wire connection	Wire to wire connection
Circuit design	Single Sided PCB	Double sided PCB for better heat release	Single Sided PCB	Double sided PCB for better heat release	Single Sided PCB	Double sided PCB for better heat release
Reserve current protection	O	O	O	O	O	Not required
Certification	CE RoHS	CE RoHS	CE RoHS	CE RoHS	N/A	N/A
Waterproof Rate	IP68	IP68	IP68	IP68	IP68	IP68
Operating Voltage	DC 12V	DC 12V	DC 12V	DC 12V	DC 12V	AC 110V, Not required SMPS
Viewing Angle	120°	120°	120°	120°	120°	120°
Max. series connection	50 modules in series	50 modules in series	50 modules in series	50 modules in series	100 modules in series	300 modules in series

LED Bar-type Aluminum Module

Application

- Showcase lighting
- Indirect lighting for versatile application
- Interior lighting
- Billboard lighting

AC Series



AC2-W



AC4-W



Common Specifications

Operating Power : DC 24V
 LED Source : 3 chip SMD LED
 Color temperature of white :
 5500K / 6500K / 8000K
 Warm white will be available from 3000K



Physical & Optical Specification

Product No.	NCAL BAR-2	NCAL BAR-3S	NCAL BAR-6	NCAL BAR-12	NCAL BAR-24
Dimension[Bar]	7.2T*15W*68L	7.2T*15W*68L	7.2T*15W*250L	7.2T*15W*490L	7.2T*15W*970L
Number of LED lamps	2 LED	3 LED	6 LED	12 LED	24 LED
Power Dissipation	0.48W	0.72W	1.44W	2.88W	5.76W
Weight	19g	15g	41g	73g	134g
Luminous flux[lumen]	31.2	46.8	93.6	187.2	374.4
Max. series connection	50 modules	50 modules	50 modules	30 modules	15 modules

* This is the standard specification above. Specifications subject to change without notice

Product Features

- AC Power operated LED Module solution
- Convenient usability with Direct AC Power 100V / 220V
- No extra converter, No extra expenses
- "Safety Fuse built-in" to prevent a Fire Incidents
- Constant Current Drive - "Fully warranted Stability" with High energy efficiency (58 lm/w)
- Efficient Heat release with double-sided PCB design
- Constant Luminosity & Current flow to Max. 300 modules in series
- Reverse current protection
- 50,000hours of Long lifetime
- 3chip SMD LED mounted (made in Korea)
- IP68 - Highest level of Water & Dust protection
- Green products free from any hazardous substances



Specification

Product No.	AC2-W	AC4-W
Dimension[Bar]	66L*19W*11H	45L*45W*11H
Operating Power	100V / 220V	100V / 220V
Current Consumption	6 mA	9.2 mA
Power Consumption	0.6 W	0.92 W
Color Temperature	3000/5000/8000 K	3000/5000/8000 K
Weight[g]	16	22
Luminous flux[lm]	28	54
Radiation Angle	120°	
Operating Temperature	-20°C ~ 80°C	
Storage Temperature	-30°C ~ 70°C	
Waterproofing	IP68	
Cable	AWG18, 1007-SPT-1(105° C)	
Case Material	ABS + Ductile Epoxy Treatment	

* This is the standard specification above. Specifications subject to change without notice
 * All the luminosity data for white color is recorded based on 6500K
 * Red, Green, Blue colors are available

LED STICK / LED ALUMINUM STICK



LED ALUMINUM STICK

Product Features

- The Best choice for illumination with Cost-effective solution
- "Fully warranted Stability" with High energy efficiency
- Efficient Heat release with double-sided PCB design
- Reverse current protection
- 50,000hours of Long lifetime
- 54*50/ 35*28 SMD LED all Available depends on order
- Green products free from any hazardous substances

Physical & Optical Specification

Product No.	LED STICK 7.2W	LED AL STICK 7.2W
Dimension	6W*500L*1.6T	10W*500L*6T
Mounted LED	3chip SMD LED 3D LED per 500mm	3chip SMD LED 3D LED per 500mm
Operating Power	DC 12/24V	DC 12/24V
Power Consumption	7.2W	7.2W
Luminous intensity(lumen)	468 lm	468 lm
Structure	PCB board with Lamp only	Aluminium body with the same size of PCB
Color Temperature	3000/5500/6500/8500K	3000/5500/6500/8500K
Weight	8g	60g
Radiation Angle	120°	120°
Cutting pitch	3 lamps per unit, 500/50mm=10pieces	Fixed with Aluminum case
Waterproofing	NA	IP67
Cable (UL Standard)	AWG 18	AWG 18
Operating Temp.	-20 ~ +40°C	-20 ~ +40°C

* This is the standard specification above. Specifications subject to change without notice
 * Red, Green, Blue, RGB Stick also available on demands

Application

- Side-lighting for Light box or panel
- Restaurant Interior lighting
- Shelf illumination for shops
- Showcase lighting
- Art & Structure lighting for Architecture



LED STICK

• AL, AC Module / LED Stick

SMPS

Constant Voltage Power Supplies



The constant voltage LED power supplies from NC LED can deliver up to 75/ 100/ 150W of output power in a compact package size.

The LUXENCE Power Supply Series provide a range of output voltage solutions for specific LED requirements. With its 90 of high efficiency and PFC function, LUXENCE power Supply Series make you experience the high reliability and performance to maximize efficiency of industry as an outstanding solution.

Safety Protection

- SCP (Short Circuit Protection)
: When electric short occurred between +/- polarity, power will be shut down. Prevent Fire incident
- OCP (Over current Protection) = OLP (Over Load Protection)
: When you connect 100% of its capacity, LED blinks or SMPS will be shut down
- OTP (Over Temperature Protection)
: When surface temp. reached to 90°C, power will be shut down
- OVP (Over Voltage Protection) : Electric circuit protection

Product Features

LED dedicated Constant Voltage power supply

- PFC Type with Power Factor Correction circuit (Active PFC, Typical 0.99)
- General Type of SMPS for markets doesn't required PFC
- High efficiency up to 91%
- IP67 Rated waterproofing
- Safety protection (OVP, SCP, OCP, OTP)
- Free voltage : 100 to 240VAC
- CE,UL,KC Certified

Plastic case (IP67)
20/ 40/ 60W



Aluminium case (IP67)
100/ 150/ 250W



Specification (PFC Type)

Model Number	Input Voltage	Dimension	Output Voltage	Output Current	OVP Max	Efficiency	Module connection per Model No.						
							LX-HLC4-W (Samsung,LG)	LX-HLC4-W	LX-HLC3S-W	LX-HLC2S-W (Samsung,LG)	LX-HLC2S-W	HLC1-W MINI3W	Unit
NCP020-PF-AU-12V	100~240VAC	153(L)*36(W)*26(H)mm	12VDC	1.66A	18V	86%	13	19	25	25	38	75	modules
NCP040-PF-AU-12V	100~240VAC	109(L)*59(W)*31(H)mm	12VDC	3.3A	18V	86%	25	38	50	50	75	150	modules
NCP060-PF-AU-12V	100~240VAC	157(L)*45(W)*37(H)mm	12VDC	5A	18V	86%	38	56	74	74	113	25	modules
NCP100-PF-SU-12V	100~240VAC	185(L)*67(W)*44(H)mm	12VDC	8.4A	18V	86%	63	94	123	123	188	375	modules
NCP150-PF-AU-12V	100~240VAC	214(L)*78(W)*46(H)mm	12VDC	12.5A	18V	90%	94	141	185	185	281	563	modules
NCP150-PF-AU-24V	100~240VAC	214(L)*78(W)*46(H)mm	24VDC	6.6A	32V	92%	94	141	185	185	281	563	modules
NCP250-PF-AU-12V	100~240VAC	244(L)*96(W)*46(H)mm	12VDC	20.8A	18V	90%	156	234	308	308	469	938	modules

Specification (General Type)

Model Number	Input Voltage	Dimension	Output Voltage	Output Current	OVP Max	Efficiency	Module connection per Model No.						
							LX-HLC4-W (Samsung,LG)	LX-HLC4-W	LX-HLC3S-W	LX-HLC2S-W (Samsung,LG)	LX-HLC2S-W	HLC1-W MINI3W	Unit
NCP060-NF-AU-12V	100~240VAC	157(L)*45(W)*37(H)mm	12VDC	5A	18V	86%	38	56	74	74	113	225	modules
NCP100-NF-AU-12V	100~240VAC	165(L)*67(W)*44(H)mm	12VDC	8.4A	18V	87%	63	94	123	123	188	375	modules