

MONE S&C

2019

**ECO-FRIENDLY
ROAD TRAFFIC
SAFETY FACILITY**

[VER. 1.00]

MONE S&C CO.,LTD.



Solar road traffic safety facility



CONTENTS

- Road Stud
 - Road Delineation
 - Bollard
 - Landscape Lighting
 - RGB Landscape Lighting
-



LED Color White Yellow Green

FEATURES

- Improving traffic safety.
- Visibility of 0 ~ 380m due to application of high brightness LED and optical design.
- High strength (30 tons), impact resistance, waterproof (IP68), dustproof construction.
- Module and protective cap separation structure facilitates maintenance.
- Embedded type products minimize impact on roads and impact by vehicles.
- Structure to prevent settlement due to vehicle load and structure to prevent separation by impact.
- Hybrid power structure and power control technology applied 365 days a year. (Hybrid Model)
- RF ON / OFF Control Function (Option)

Applicable range



road center line, lane boundary, bicycle road, pedestrian way and passage, pedestrian crossing, safety zone, turning intersection, waterfront, breakwater etc.

SPECIFICATION

Item	Type		Use environment	Model Name
Road stud	K·S White	Hybrid Type	Average sunshine (less than 3.5 hours)	MS-10HW
	K·S Yellow			MS-10HY
	Free Color			MS-10HL
	K·S White	Solar Type	Average sunshine (more than 3.5 hours)	MS-10SW
	K·S Yellow			MS-10SY
	Free Color			MS-10SL

Item	Spec.	
Lighting device	Super Luminosity LED x 6ea	
Controller	Ultra Low Power MCU Controller	
Power supply	Hybrid Model	Solar Cell : 4V/120mA/Hr
		Battery 1 : Li-FePO4 3.2V / 1500mA
		Battery 2 : Lithium 3.6V / 7.2A
	Solar Model	Solar Cell : 4V/120mA/Hr
		Battery 1 : Li-FePO4 3.2V / 1500mA
Relief day	Hybrid Model : 365day Solar Model : 3day	
Material	Polycarbonate, AL Casting	
Protection standard	IP68	
Breaking load	more than 30tons	
Dimension	127mm(W) x 127mm(D) x 50mm(H)	
life span	5 to 10 years (depending on the amount of sun shine)	
Weight	1000g	

* Specification and design are subject to change without notice.



LED Color White Yellow

FEATURES

- Visibility of 0 ~ 500m due to light emitting function using high brightness LED and reflection function using Reflex Reflector lens.
- 200mAHr High capacity solar cell and 270 ° rechargeable structure, it can be used in the solar environment.
- Hard coating minimizes the deterioration of visibility due to ultraviolet rays and foreign substances.
- 360° mounting bracket allows installation at various angles.
- Hybrid Hybrid power structure and power control technology applied 365 days a year. (Hybrid Model)
- RF ON/OFF Control(Optional)

SPECIFICATION

Item	Type	Use environment	Model Name
Traffic Delineator	Hybrid Type	Average sunshine (less than 3.5 hours)	MTD-50HD
	Solar Type	Average sunshine (more than 3.5 hours)	MTD-50SD

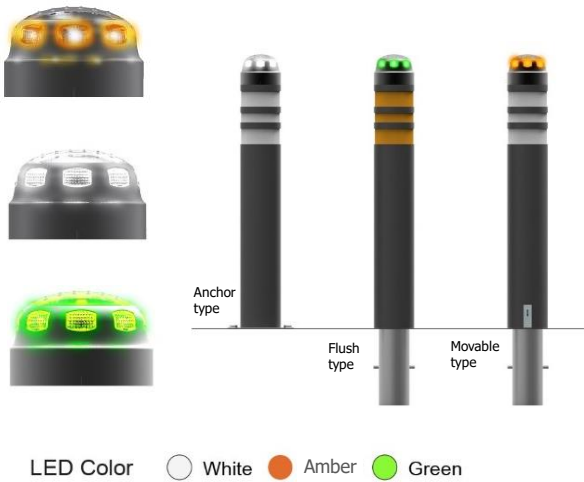
Item	Spec.	
Lighting device	Half Reflex Reflector + High brightness LED	
Reflector device	Reflex Reflector Lens	
Power Supply	Hybrid Model	Solar Cell : 4V/200mA/Hr
		Battery 1 : Li-FePO4 3.2V / 1500mA
		Battery 2 : Lithium 3.6V / 7.2A
	Solar Model	Solar Cell : 4V/200mA/Hr
		Battery 1 : Li-FePO4 3.2V / 1500mA
Controller	Ultra Low Power MCU Controller	
Relief day	Hybrid Model : 365 day, Solar Model : 3day	
Material	Polycarbonate(Hard coating)	
Protection standard	IP67	
Dimension	Ø122mm(A reflecting portion and a light emitting portion Ø100) x H181mm	
life span	5 to 10 years (depending on the amount of sunshine)	
Weight	300g	

* Specification and design are subject to change without notice.

Applicable range



road median strip, road boundary area, hazardous area (intersection, bridge, tunnel, etc.) Road safety areas (rests, sleeping areas, etc.), national roads and local roads, etc.



FEATURES

- High visibility of more than 100m using LED light and high-brightness reflective sheet
- Pedestrian safety and vehicle shock absorption by using urethane protective cover
- Shock resistance, waterproof (IP67), dustproof construction
- Hybrid power structure and power control technology applied 365 days (Hybrid Model)
- RF ON/OFF Control function(Optional)

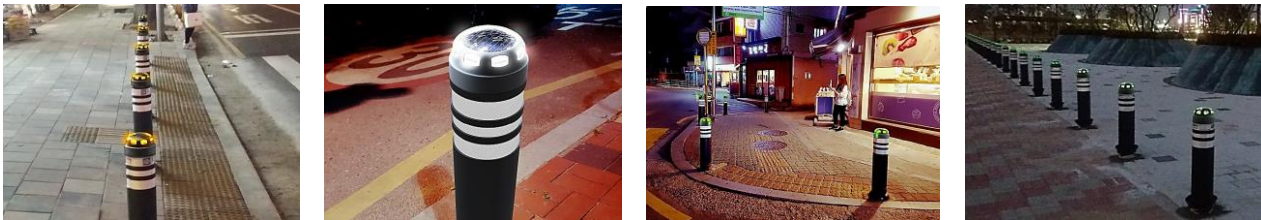
SPECIFICATION

Item	Type		Use environment	Model NO
Light emitting type Bollard	LED cap	Hybrid Type	Average sunshine (less than 3.5 hours)	MB-60HB
	Anchor type			MB-61HB
	Flush type			MB-62HB
	Movable type			MB-63HB
	LED cap	Solar Type	Average sunshine (more than 3.5 hours)	MB-60SB
	Anchor type			MB-61SB
	Flush type			MB-62SB
	Movable type			MB-63SB

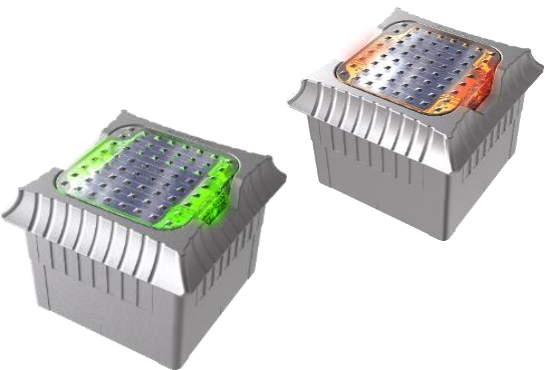
Item		Spec.	
LED CAP	Lighting device	Super Luminosity LED x 8ea	
	Controller	Ultra Low Power MCU Controller	
	Power supply	Hybrid Model	Solar Cell : 4V/250mA/Hr
			Battery 1 : Li-FePO4 3.2V / 1500mA
		Solar Model	Battery 2 : Lithium 3.6V / 7.2A
			Solar Cell : 4V/250mA/Hr
BODY	Material	Polycarbonate, AL Casting(Fluorine coating)	
	Reflector	Ultra-High Brightness Reflective Sheet	
	Protective cover	Urethane material	
	Internal material	Steel Pipe	
DIMENSION	LED cap	Ø151mm x H97.5mm	
	Anchor type	Ø151mm x H813mm	
	Flush type	Ø151mm x H1100mm	
	Movable type	Ø151mm x H1100mm	
Weight		16,000g	

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Applicable range



Roads prohibited from traffic, pedestrian-only roads, stop-stop zones, park access roads, pedestrian crossings, temples, cultural heritages, gates, etc.



LED Color White Yellow Green

FEATURES

- Visibility of more than 500m using high-brightness LED
- Shock resistance, waterproof (IP67), dustproof construction
- Internal module and protective cap separation structure facilitates maintenance
- Hybrid power structure and power control technology applied 365 days a year. (Hybrid Model)
- RF ON/OFF Control (Option)

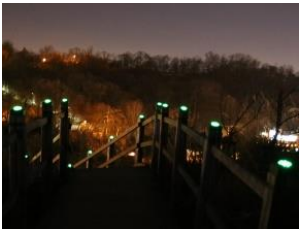
SPECIFICATION

Item	Type	Use environment	Model NO
LED Landscape Lighting	Hybrid Type	Average sunshine (less than 3.5 hours)	MK-70HL
	Solar Type	Average sunshine (more than 3.5 hours)	MK-70SL

Item	Spec.	
Lighting device	Super Luminosity LED x 6ea	
Controller	Ultra Low Power MCU Controller	
Power supply	Hybrid Model	Solar Cell : 4V/150mA/Hr
		Battery 1 : Li-FePO4 3.2V / 1500mA
		Battery 2 : Lithium 3.6V / 7.2A
	Solar Model	Solar Cell : 4V/150mA/Hr
		Battery 1 : Li-FePO4 3.2V / 1500mA
Relief day	Hybrid Model : 365 day, Solar Model : 3 day	
Main material	Polycarbonate, AL Casting	
Protection standard	IP67	
Dimension (mm)	W127 x D127 x H60 (Inner diameter W100 x D100 x H42)	
life span	5 to 10 years (depending on the amount of sunshine)	
Weight	500g	

* Specification and design are subject to change without notice.

Applicable range



Parks, trails, trails, hazardous area safety signs, deck facilities, stepping stones, golf courses, landscaping facilities, etc.



One way

Bi-directional

LED Color ○ White ● Amber ● Green

FEATURES

- There is no restriction on installation environment by battery power structure
- 100m or more visibility using high-brightness LED
- Use of more than 3 years (lighting) ~ 5 years (blinking) for low power and high brightness
- Shock resistance, waterproof (IP67), dustproof structure

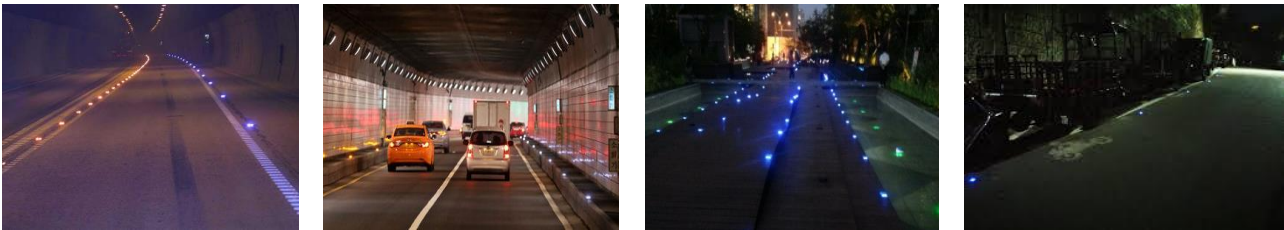
SPECIFICATION

Item	Type	Use environment	Model NO
Multi-use landscape lighting	Battery Type	No limit	MK-80L2
		No limit	MK-80L4

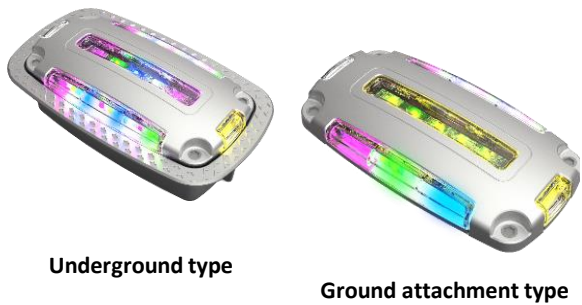
Item	Spec.
Lighting device	Super Luminosity LED x 2~4ea
Power supply	Lithium Battery/3.6V/18A x 2ea
Main material	AL Casting, Polycarbonate(Lens)
Protection standard	IP67
Dimension	Ø150mm x H47mm
life span	Continuous lighting: 3 years, blinking: 5 years
Weight	1000g

* Specification and design are subject to change without notice.

Applicable range



Tunnels, other shaded areas, etc.



LED Color : RED, GREEN, BLUE, WHITE

FEATURES

- Various panoramic production by RGB LED (7 Mode)
- Individual operation and linkage operation function (RS-485 communication)
- Operation with stand-alone Solar System
- Can use AC / DC interlock (Option)
(Normal: Solar System, When Solar capacity is low: Switch to AC)

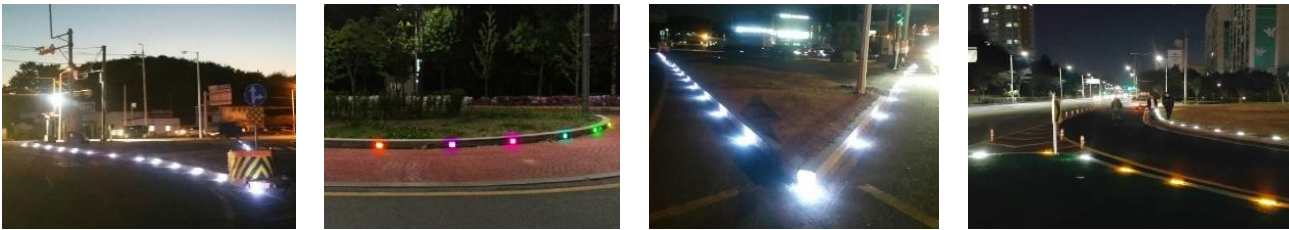
SPECIFICATION

Item	Type	Use environment	Model NO
RGB Landscape Lighting	Ground attachment type	AC Power	MK-90AC
	Underground type		MK-91AC
	Ground attachment type / Underground type	Solar System	MK-92SR

Item	Spec.	
LED Module	RGB LED x 23ea~29ea	
Controller	Power	DC 24V
	Operation mode	7Mode
	Communication method	RS-485(10Mbps, 1.2Km(max))
	Control mode	Overcurrent, overvoltage and recovery functions
Power supply	Input voltage	AC110V/220V 60Hz
	Output voltage	DC24V/10A
Protection standard	IP67	
Dimension (mm)	Ground attachment type	W229 x D101 x H26
	Underground type	W229 x D134 x H64
Weight	Ground attachment type : 1Kg, Underground type : 3Kg	
Solar System	Power supply	DC12V/24V
	Solar Cell	125W X 2 (High efficiency single crystal, efficiency 17%)
	Controller	Charge, discharge control, sunset detection, PWM charge control Battery over current shutdown control
	Battery	SLA 11V 120Ah X 2
		Li-Ion : 25.9V 41.6Ah X 2 (Option)
	Lantern	Steel- paintin (5M,Ø165, 4.5mm)
		Photovoltaic cell frames and cradles
	Relief day	Control Box: Steel (Painted finish)
		3 day
	※ Daily sunshine hours 3.5 hours, LED lights up 10 hours per day	

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Applicable range



Road junction, road safety zone, park, school zone, apartment complex, high-rise rooftop helicopter, theme park, hotel lobby. Etc



MONE S&C

#203, 201dong, Chunui Technopark, 18, Bucheon-ro, 198beon-gil, Wonmi-gu, Bucheon-si, Gyeonggi-do, Korea

Tel : +82-032-623-8359

Fax : +82-032-623-8361

Homepage : www.monesnc.com

e-mail : kdh@monesnc.com, dohun-kang@naver.com