

Specifications Sheet

Road Marker Series

Model: SI-135

Overview & Applications

SolarCap SI-135 road stud was designed and developed for brightness, thus significantly improve visibility during adverse weather conditions. A bidirectional road stud with 2 LEDs on each side makes it an excellent product to better illuminate your driveway, road and highway shoulders. Made from single piece cast aluminium with PVDF coating for durability, lithium-ion energy storage technology, it is versatile, easy to install and provides years of maintenance-free service.

Dimension & Weight

Dimension: 144mmØ x 25mm
Stud Dimension: 25mmØ x 65mm
Weight: 700 g

Physical Properties

Compressive Strength: 310,000 N
Ingress Protection: IP68
Operating Temperature: -25°C to +70°C
Operating Time: >15 hrs
Onset Point: 550 - 600 LUX
Charging Time: 3hrs (sunny day) to 8hrs (cloudy day)



Lighting Properties

Model	Mode Type	Colour	*Luminance (cd/m ²)			**Uniformity	Remarks
			Average	Minimum	Maximum		
SI-135	Continuous	Red	333.00	308.00	358.00	86.00%	* Luminance measurement is an average of centre luminance of the lighting area ** Uniformity is obtained by dividing minimum luminance by maximum luminance from centre measurement
		Green	515.50	501.00	530.00	94.50%	
		Blue	83.55	71.40	95.70	74.6%	
		Yellow	272.50	258.00	287.00	89.90%	
		White	780.00	728.00	832.00	87.50%	
Mode Types: Continuous, Slow Flashing & Fast Flashing							
Slow Flashing Speed: 60 ±10% per minute							
Fast Flashing Speed: 210 ±10% per minute							

Components

Mono Crystalline Solar Cell	Solar module Size Solar Maximum Output Power Solar Operating Current Solar Voltage	47mm x 47mm 0.267W 54mA 4.95V
LED	LED Size LED Current LED Operating Current LED Voltage LED Wattage LED Quantities	5mmØ 20mA each 8mA each 3V 0.024W each 4 LED
Energy Storage	Lithium-ion	3.7V, 2,600mA
Housing Construction	High impact poly-carbonate top-cover (LG CHEM, 3025 AC WH) Single piece cast aluminium (ALDC12.1)	
Electronic Controller	Main PCB (Seiko, Microchip), LED PCB	
Country of Origin	South Korea	

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