

Specifications Sheet

Road Marker Series

Model: YH-YS

Overview & Applications

SolarCap YH-YS is one of its most versatile lights. SolarCap YH-YS is an excellent product to better illuminate your roads and help with lane channelization. Made from a single piece cast aluminium, with 3 LEDs on each side and like all other SolarCap products, the YH-YS comes with EnergyCache technology, installs quickly and provides years of maintenance-free service.

Dimension & Weight

Dimension: 110mm x 90mm x 30mm

Weight: 410 g

Physical Properties

Compressive Strength: 282,824 N

Ingress Protection: IP68

Operating Temperature: -40°C to +70°C

Operating Time: >12 hrs

Onset Point: 150 - 350 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		
YH-YS	Continuous	Red	34.22	30.40	35.60	85%	* 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	147.50	138.50	163.50	85%	
		Blue	3.22	2.33	3.76	62%	
		Yellow	26.66	22.60	30.40	74%	
		White	86.84	61.00	123.00	50%	
Mode Types: Continuous, Slow Flashing & Fast Flashing							
Slow Flashing Speed: 60 ±10% per minute							
Fast Flashing Speed: 120 ±10% per minute							

Components

Mono Crystalline Solar Cell	Solar module Size Solar Maximum Output Power Solar Operating Current Solar Voltage	40mm x 53mm 0.337W 107mA 3.15V
LED	LED Size LED Current LED Operating Current LED Voltage LED Wattage LED Quantities	Nichia 3.5mm x 2.8mm chip LED 10mm Ø lens 20mA each 1.1mA each 3V 0.0033W each Option for 3 or 6 LED
Energy Storage	EnergyCache Pseudocapacitor	2 x 2.3V 120 Farad
Housing Construction	High impact poly-carbonate top-cover (LG CHEM, 3025 AC WH) Single piece cast aluminium (ALDC12.1)	
Electronic Controller	Main PCB (Torex, Microchip), LED PCB	
Country of Origin	South Korea	

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