

Specifications Sheet

Road Marker Series

Model: YH-HR

Overview & Applications

SolarCap YH-HR is completely made from high impact poly-carbonate. It comes with a diameter of 145mm and 2 LEDs on both sides with different mode types and colours. The YH-HR is ideal for pedestrian-frequented areas because it is flat on the top, so it works well installed on a variety of surfaces such as walkways, decks, patios, car parks, playground, bike trails and water features.

Dimension & Weight

Dimension: 145mm Ø x 50mm

Weight: 400 g

Case Material: High impact Poly-carbonate

Physical Properties

Compressive Strength: 90,500 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-HR	Continuous	Red	20.95	17.70	24.20	73%	* Luminance measurement is an average of 2 points on the lighting area
		Green	136.00	122.80	148.30	82%	
		Blue	22.00	21.40	22.40	95%	
		Yellow	42.65	38.40	46.90	82%	** Uniformity is obtained by dividing minimum luminance by maximum luminance from 2-point measurements
		White	100.30	91.80	108.80	84%	
Mode Types: Continuous, Slow Flashing & Fast Flashing							

Components

Mono Crystalline Solar Cell	Solar module Size Solar Maximum Output Power Solar Operating Current Solar Voltage	51mm x 55mm 0.3245W 103mA 3.15V
LED	LED Size LED Current LED Operating Current LED Voltage LED Wattage LED Quantities	Nichia 5mm Ø LED 20mA each 0.25mA each 3.0V 0.0003W 4 LED
Energy Storage	EnergyCache Pseudocapacitor	1 x 2.3V 120 Farad
Housing Construction	High impact poly-carbonate (LG Chem, 112R-112)	
Electronic Controller	Main PCB (Torex, NXP)	
Country of Origin	South Korea	

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