

Specifications Sheet

Road Marker Series

Model: YH-DD1

Overview & Applications

SolarCap YH-DD1 offers years of reliable and cost-effective roadway safety. Made of single piece cast aluminium and high impact poly-carbonate top cover, the YH-DD1 is designed and fabricated to withstand heavy vehicles. Ideal for pedestrian crossing, highways, curved roads, rural traffic and as lane delineation.

Easy installation and maintenance-free. It is also independent and off the grid power. With no wires to install, no batteries to replace and virtually no maintenance required over the 10+ year life of the products.

Dimension & Weight

Dimension: 148mm \varnothing x 50mm

Weight: 1.0 kg

Physical Properties

Compressive Strength: 239,000 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-DD1	Continuous	Red	22.32	21.20	22.80	93%	* 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	75.36	63.40	89.30	71%	
		Blue	1.20	1.04	1.37	76%	
		Yellow	13.83	11.91	16.22	73%	
		White	67.20	59.30	85.80	69%	
Mode Types: Continuous, Slow Flashing & Fast Flashing							
Slow Flashing Speed: 60 \pm 10% per minute							
Fast Flashing Speed: 120 \pm 10% per minute							

Components

Mono Crystalline Solar Cell	Solar module Size Solar Maximum Output Power Solar Operating Current Solar Voltage	82mm x 52mm 0.679W 215.6mA 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 \varnothing 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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