

# Specifications Sheet

## Solar Tile Series

**Model: NST100**

### Overview & Applications

SolarCap NST100 is one of the most popular model. Comes with 100mm diameter size, colours and various lighting modes. You can choose to have a custom imprinting option. Beautifully designed and great for many applications including, sidewalks, patios, walking and bike trails, driveways, playgrounds, pools, steps, tops or sides.

### Dimension & Weight

Dimension: 118mm Ø x 59mm  
 Weight: 880 g  
 SUS Case Material: SUS 304-2B  
 SUS Case Thickness: 0.8t

### Physical Properties

Compressive Strength: 62,135 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 <sup>2</sup> )			**Uniformity	Remarks
			Average	Minimum	Maximum		
NST100	Continuous	Red	6.41	5.72	6.76	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	11.53	10.60	12.17	87%	
		Blue	1.49	1.20	1.68	73%	
		Orange	6.32	6.06	6.98	87%	
		Amber	4.69	4.30	4.94	88%	
		White	13.26	12.60	13.76	91%	
Mode Types: Continuous & RGB							

### Components

Mono Crystalline Solar Cell	Solar module Size Solar Maximum Output Power Solar Operating Current Solar Voltage	46mm x 47mm 0.33W 105mA 3.15V
LED	LED Size LED Current LED Operating Current LED Voltage LED Wattage LED Quantities	Nichia 3.5mm x 2.8mm chip LED 20mA each R/O/A Colours: 1.8mA, B/W/G Colours: 1.1mA R/O/A Colours: 2.5V, B/W/G Colours: 4.0V 0.004W 4 LED
Energy Storage	EnergyCache Pseudocapacitor	2 x 2.3V 120 Farad
Housing Construction	High impact poly-carbonate top-cover (Samyang, 3022-IR-01) High impact poly-carbonate bottom-cover (Samyang, 3025 R)	
Electronic Controller	M/P: Seiko, AUK, ON Semi, LED PCB	
Country of Origin	South Korea	

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