SynJet® PAR38 LED Cooler with HS

Features/Benefits

- Covers all your PAR38 LED cooling needs
 - Ultra high powered applications like High Bay
 - Low acoustic applications like Desk Lamps
 - Universal applications like General Lighting
- Meets PAR38 form factor
- 100K hours L10 life at 50C



Overview

SynJet[®] fanless air moving technology provides the most reliable active cooling solution available today. The SP38S family of SynJet[®] cooling modules has been developed by Nuventix Inc. for cooling an LED PAR38 lamp. It can be integrated with a wide array of electronic and optical solutions in the PAR38 form factor.

Specifications

Parameter	Θs-a ¹²³	SPL (dBA) ⁴	TDP⁵ (W)	Power W (5V) 6
PAR38-Ultra High Performance, 60W Cooler	0.65	36	62	2.5
PAR38-High Performance, 45W Cooler	0.85	25	47	2
PAR38-Standard, 40W Cooler	1	22	40	1.8
PAR38-Low Power, 33W Cooler	1.2	18	33	0.6
PAR38-Silent, 27W Cooler	1.45	15	27.5	1

Parameter – All Modules	Min	Тур	Max	Units	Conditions
Voltage ⁶	4.75		5.25	VDC	150mV max ripple p-p
Power Lead					Power (Red wire)
					Ground (Black wire)
Operating Temperature	0		50	°C	
Storage Temperature	-40		75	°C	
Storage Altitude			15K	m	Above Sea Level
Relative Humidity (operating)	5		95	%	Non-condensing
Weight			425	gr	With heat sink
Agency Certifications					CE, UL, RoHS
Reliability ⁷			100K	hrs	L10 @ 50°C

⁵ Total Design Power based on a 40°C delta in temperature

⁷ L10 is the life for which 90% of a group of modules will meet or exceed the specification



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¹ In fully open air or well vented fixtures from 25C to 50C in full on condition. Thermal data is given as a reference only. Actual performance may vary by application.

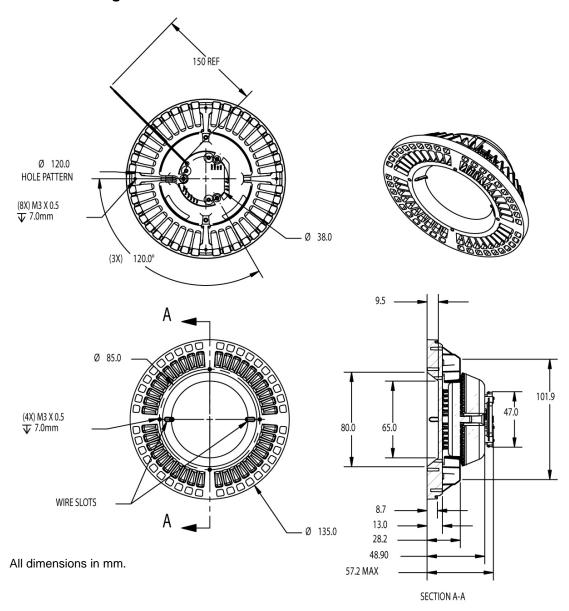
²Thermal resistance is measured from the bottom middle of the heat sink, with a heat source at least 15cm², to ambient air measured at the inlet to the SynJet.

³ SynJet Cooler is suitable for enclosed fixtures but thermal performance will vary depending on the enclosure

⁴ Per ISO 7779

⁶ See Nuventix Design Guide for detailed power requirements

Mechanical drawing



Part Numbers

PAR-38 Cooler	Document revision: 2.3	Document revision: 2.3			
SP38S-CM005-015	SynJet, PAR38, – UHP 60W Cooler				
SP38S-CM005-010	SynJet, PAR38, – HP 45W Cooler				
SP38S-CM005-013	SynJet, PAR38, – Standard 40W Cooler				
SP38S-CM005-012	SynJet, PAR38, – LP 33W Cooer				
SP38S-CM005-011	SynJet, PAR38, – S 27W Cooler				
HP38S-CALBL-001	PAR38 Heatsink				

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