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
 - o 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

Danamatan	0123	CDL (dDA)4	TDD ⁵ (MA)	Dames M (5) () 6
Parameter	Θs-a ¹²³	SPL (dBA)*	TDP° (W)	Power W (5V) °
PAR38-Ultra High Performance, 60W Cooler	0.70	36	57	2.5
PAR38-High Performance, 45W Cooler	0.85	25	47	2
PAR38-Standard, 40W Cooler	1	22	40	0.95
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	Glound (Black wire)
Storage Temperature	-40		75	°C	
ů i	-40			-0	
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



Phone: 512-382-8100 Fax: 512-382-8101

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.

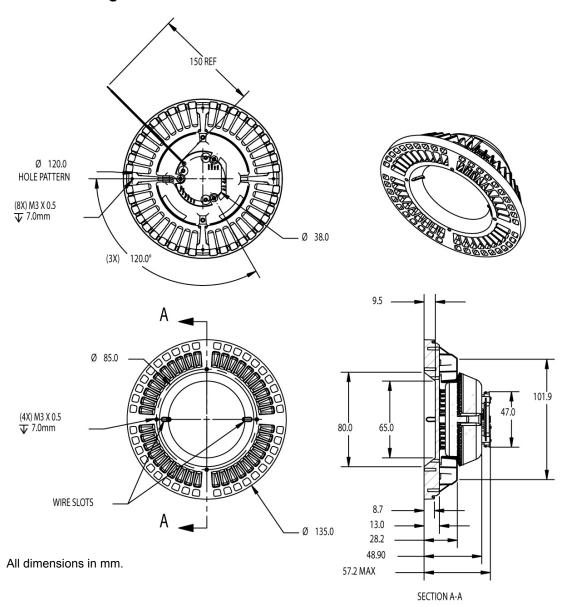
²Thermal resistance is measured from the bottom middle of the heat sink, with a heat source at least 15cm², to ambient air measured at the inlet to the SynJet.

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: 2.5	Document revision: 2.5			
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				

Nuventix reserves the right to make changes to the products or information contained herein without notice. No liability is assumed as a result of their use or applications. For additional information, please contact Nuventix directly.

