

Product Features

- High CRI(color rendering index)
- 2400 ~ 2495MHz (ISM band)
- High Output power : 170W(CW) Peak Power
- Using GaN on SiC HEMT
- High reliability & stability, long-run operation
- High frequency-stability with PLL technology
- Full spectrum light

Applications

- Agriculture
- Solar simulator
- Replacement system for MH/HPS
- Indoor grow
- Sports light
- Street lamp
- Solar dryer



Description

The Microwave Electrodeless Lighting(MEL) produces light with a spectrum similar to that of the sun. The MEL-350 uses GaN on SiC HEMT technology which performs high breakdown voltage and high efficiency. This system consists of a resonant part including a bulb and an GaN SSPA source generating a microwave. Strong light discharged under 1 inch has excellent optical spectrum.

This system will be applicable to a variety of industries that require artificial sunlight.

Electrical Specifications

PARAMETER	UNIT	MIN	TYP	MAX	SYMBOL
Operating Frequency	MHz	2400	-	2495	F _o
CW Output Power	W	-	170	200	P _o
Operating Voltage	VAC	90~264 VAC 3 phase 50/60 Hz			

Mechanical Specifications

PARAMETER	UNIT	VALUE
Main Body Dimensions (L x W x H)	mm	335 x 146.2 x 178.3
Resolator Dimensions (D x L)	mm	90.8 x 90
Total Weight	Kg	10
Cooling	-	External Heat-sink & Airflow

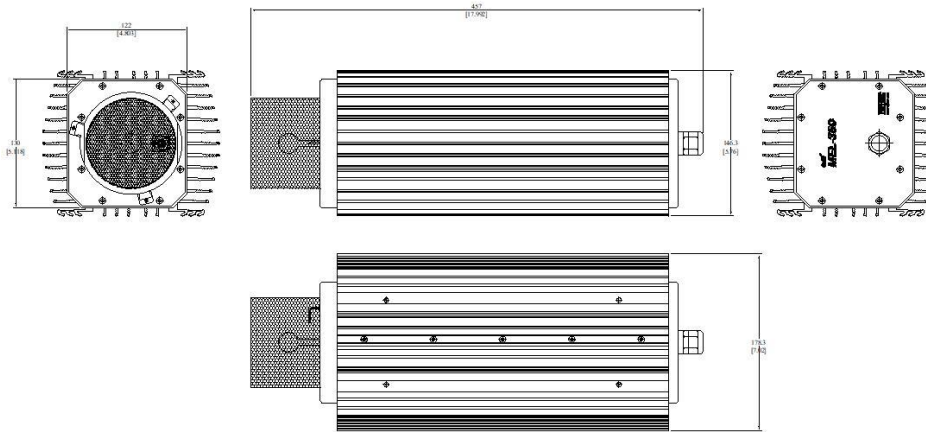
Note

Dimensions and Connectors may be subjected change.

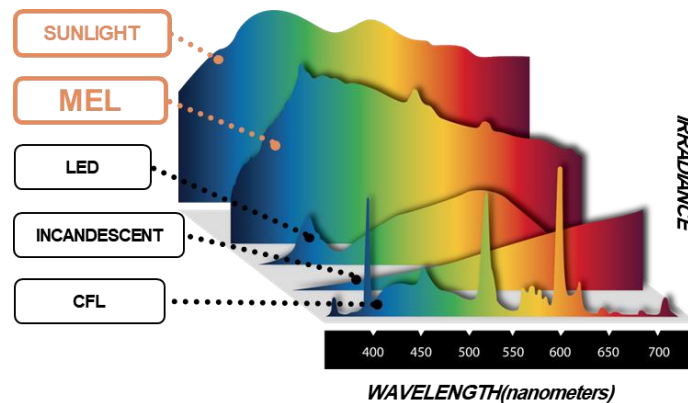
Light Source Specifications

PARAMETER	UNIT	VALUE
CRI	-	97
Color temperature	K	5,900 ~ 6,800
Luminous flux	Lumen	10,000

Mechanical drawing



Spectrum



Revision History

Part Number	Release Date	Version	Description	Data Sheet Status
MEL-350	Mar. 2020	0.3	Initial release of datasheet	Preliminary

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