

Project Name:	
Type:	

MDH22 Series

20 Watts LED Driver

PRODUCT FEATURE :

- Input voltage 100 - 277V (UL)
- Full dimming range: 3-100%
- 3-in-1 (Phase-cut 120VAC only)
- Built-in Triac/ ELV 0-10V adjustable power LED driver
- High Efficiency
- High Power Factor, Low THD
- For illuminates of protection class 2
- Certifications CE, UL
- Comply with CE, UL
- Silicon potting for better reliability



PRODUCT ATTRIBUTES :

Weight (Silicone Potting)	:	85g
Wire Specification	:	Input Wire: 0.75mm ² Output wire: 0.5mm ² Dimmer wire: 0.5mm ²
Output wire length	:	150±10mm
0-10V input Wire	:	150±100mm
End treatment of wire rod	:	22AWG 10°C/ 600V Multi-stranded wires
Dimensions	:	80x 36 x 23mm (LxWxH)

WARRANTY

- See [Limited Warranty Policy](#) for more additional information

ENVIRONMENT SPECIFICATION :

Ambient Temperature Range	:	-20 - 55°C
Operating Humidity	:	10 - 100%RH
Storage Temperature	:	-40 - 80°C
Storage Humidity	:	5% - 90%
Pressure	:	70 - 106Kpa
Driver Lifetime	:	at tc ≤90°C: 50000 hrs
Maximum Tc Temperature	:	90°C
Environmental Protection Rating	:	UL, damp and dry
Cooling Method	:	Air
Enclosure	:	PC 102°C

MODEL SELECTION :

PRODUCT MODEL	INPUT VOLTAGE	WATTS (MAX)	OUTPUT VOLTAGE	RATED CURRENT	TOLERANCE (A)	EFFICIENCY	POWER FACTOR	FLICKER FREE	SIZE (L*W*H)MM
MDH22-15-YYYY-S7D	100 - 277V	7.5W	5-15V	200-500mA	±5%	85%	≤0.9	√	80 X 36 X 23
MDH22-24-YYYY-S7D		12W	13-24V	150-500mA				√	
MDH22-36-YYYY-S7D		18W	21-36V	200-500mA				√	
MDH22-45-YYYY-S7D		22.5W	27-45V	100-500mA				√	

Note:

yyyy is 4-digit number that represents the output current.

D = Phase-cut dimming (Only for 120V supply) and 0-10V dimming

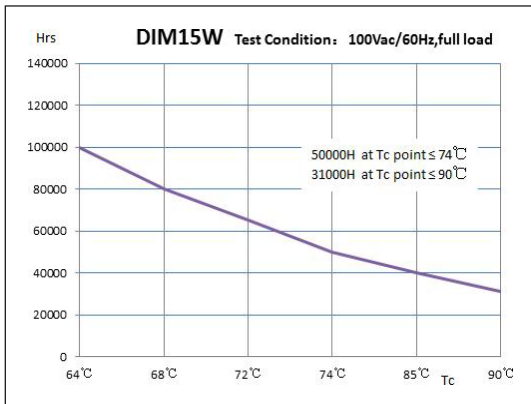
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ITEM DESCRIPTION	SPECIFICATION PARAMETER	ITEM DESCRIPTION	SPECIFICATION PARAMETER
Input Voltage :	Wide Input voltage 100 – 277VAC	MTBF :	50000H at full load and TC74°C conditions
Input Current :	0.27A	Resistance to vibration :	5 – 55HZ/ 2g, 30 minutes
Input Frequency :	50/ 60Hz	Impact Resistance :	1g/S
Min. Mains voltage operational :	100 – 277VAC @ full output	Dielectric Strength (Hi-pot) :	3KVAC 10mA 60S
Boot Delay Time :	≤0.75s @120V	Insulation Resistance :	50MΩ min. @ 500Vdc
Dimming Method :	Leading/ Trailing Edge ; 0-10V	Leakage Current :	400uA typical
Phase-cut dimming :	120VAC supply voltage only	Lighting level :	L-N/ 2kV
Maximum open circuit voltage :	52V Max	Inrush Current :	20A max @120V
Output voltage range :	5V to 45Vdc	Output Type :	Class 2
Output Current Ripple :	(ripple = peak/ average) 30%max @ max lout	Agency Approbations :	EN61347-1/2-13
Output current tolerance :	<±5%	Electromagnetic Compliance :	EN55015, EN6100-3-2
Protect Function :	SCP/ OVP/ OCP/ OTP	Audible noise :	<24dB
Max Case Temperature :	85°C		

LIFETIME :



MECHANICAL DRAWING :

