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|---------------|--|
| Project Name: | |
| Type: | |

MDH42 Series

40 Watts LED Driver

PRODUCT FEATURE :

- Input voltage 100 - 277V (UL)
- Full dimming range: 3-100%
- Phase-cut dimming only 120VAC supply voltage
- High Efficiency
- High Power Factor, Low THD
- Certifications CE, UL
- Comply with CE, UL
- Silicon Potting
- Water level: IP65
- RoHS Compliance



PRODUCT ATTRIBUTES :

| | |
|---------------------------|---|
| Weight (Silicone Potting) | : 160g |
| Input Wire | : 18AWG 105°C/ 600V Stranded |
| Output wire | : 18AWG 105°C/ 600V Stranded |
| Input wire length | : 300±10mm |
| Output wire length | : 150±10mm |
| 0-10V input Wire | : 22AWG 105°C/600V Multi-stranded wires |
| End treatment of wire rod | : 200±10mm Tin |
| Dimensions | : 90.4 x 40.2 x 34.2mm (LxWxH) |

WARRANTY

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

ENVIRONMENT SPECIFICATION :

| | |
|---------------------------------|--------------------|
| Ambient temperature range | : -20 - 45°C |
| Operating Humidity | : 10 - 100%RH |
| Storage Temp. | : -40 - 80°C |
| Storage Humidity | : 10 - 90%RH |
| Pressure | : 70 - 106Kpa |
| 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 | FLICKER FREE | SIZE (L*W*H)MM |
|-------------------|---------------|-------------|----------------|---------------|---------------|------------|--------------|----------------|
| MDH42-24-YYYY-S8D | 100 - 277V | 21.6w | 13-24V | 500-1000mA | ±5% | 85% | √ | 90 X 40 X 28 |
| MDH42-36-YYYY-S8D | | 32.4W | 21-36V | | | | | |
| MDH42-45-YYYY-S8D | | 40.5W | 27-45V | 500-950mA | | | | |

Note:

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

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

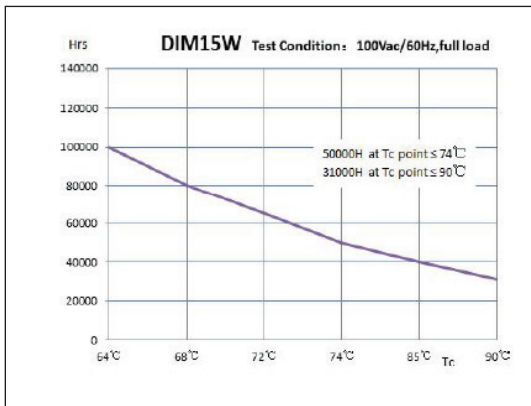
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| ITEM DESCRIPTION | SPECIFICATION PARAMETER | ITEM DESCRIPTION | SPECIFICATION PARAMETER |
|----------------------------------|---|--------------------------------|---|
| Input Voltage : | Wide Input Voltage | MTBF : | 50000H at full load and TC74°C 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 V [min] – 277V [max] | 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 : | 27V 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 :

