# MDI-H 600-1000W

MDI-H 600-1000W Series DC DC Isolated Converters Modules



## 特性 Features

- 大电流，大功率输出 High output current and power
- 高可靠性，长寿命设计 Design for high reliability, long lifetime
- 功率覆盖范围广，便于升级 Wide range of power,easy to upgrade
- 高低电压输入可选 High and low voltage input is for option
- 外形美观、性能稳定 Good appearance,Stable performance

条件：除特殊指定外，所有参数测试条件为：室温25°C,标称输入电压，纯阻性标称负载
Condition: All specifications are tested under the room temperature 25°C, Normal input voltage and pure resistive normal load.

## 输入特性 Input Characteristic

| 额定值 (Rated) | 电压范围 (Voltage Range) | 额定值 (Rated) | 电压范围 (Voltage Range) |
|---|---|---|---|
| 12 VDC (额定值 Rated) | 18-36 VDC | 300 VDC (额定值 Rated) | 200-400 VDC |
| 24 VDC (额定值 Rated) | 36-72 VDC | 600 VDC (额定值 Rated) | 400-800VDC |
| 110 VDC (额定值 Rated) | 66-154 VDC | | |

## 输出特性 Output Characteristic

| | | | |
|---|---|---|---|
| 电压精度 (Voltage Set-point Accuracy) | ± 2% | 输出电流 (Output Current) | 5-80A 任选 (For option) |
| 电压调整率(主路) (Line Regulation<main>) | ± 0.5% | 输出电压 (Output Voltage) | 12-110V 任选 (For option) |
| 负载调整率(主路) (Load Regulation<main>) | ± 0.5% | 功率 (Power) | 600-1000W |
| 电流限制点 (Output Current Limiting) | 120%(Typ) | | |

## 一般特性 General Characteristic

| | | | | | |
|---|---|---|---|---|---|
| 工作频率 (Switching Frequency) | 100-200KHz | | 环境特性 (Environmental Characteristics) | 工作壳温 (Case Temperature) | (工业品) Industry -25 – +85°C<br>(军I) Military I -40 – +85°C<br>(军II) Military II -55 – +85°C |
| 绝缘电阻 (Isolation Resistance) | 200MΩ | | | | |
| 绝缘强度 (Isolation Voltage) | 输入-输出 (Input-Output) | >1500VDC | | 存储温度 (Storage Temperature) | (工业品) Industry -45 – +105°C<br>(军I) Military I -55 – +105°C |
| | 输入-外壳 (Input-Case) | >1050VDC | | | |
| | 输出-外壳 (Output-Case) | >500VDC | | | |

## 保护特性 General Characteristic

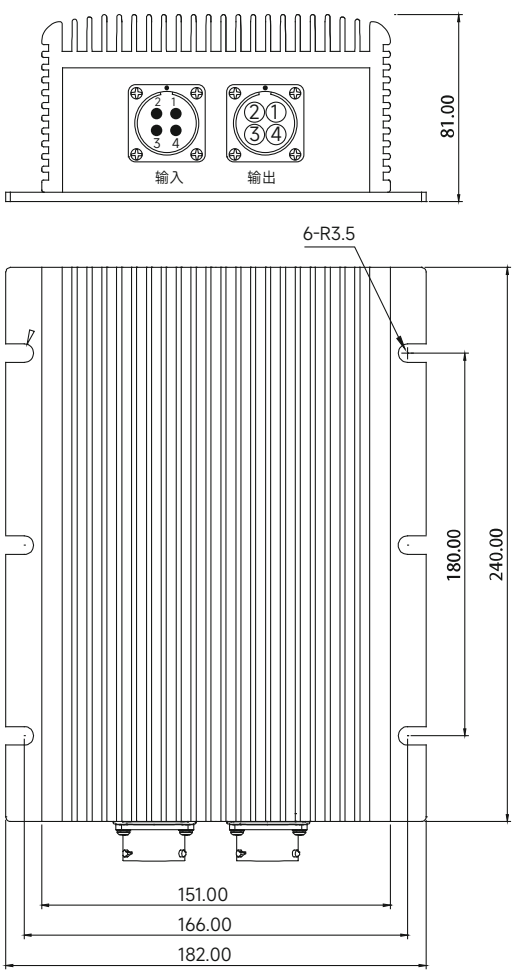
- ★ 输入欠压保护(Input under voltage protection)
- ★ 输出过流保护(Output over current protection)
- ★ 过温保护(Over temperature protection)
- ★ 输出短路保护(Output short circuit protection)

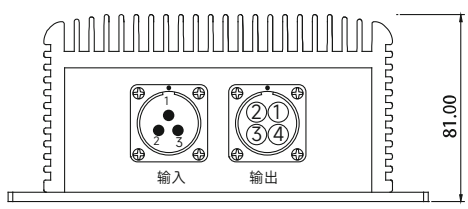
| | 输入电压(Vdc) Input voltage | 输入电压范围（Vdc） Input voltage Range | 输出电压（Vdc） Output voltage | 输出电流（A） Output current(A) | 纹波PK-PK（mv） Ripple and noise | 效率(Typ) Efficiency(Typ) | 型号 Models |
|---|---|---|---|---|---|---|---|
| 单路 Single Channels Output | 24 | 18-36 | 27 | 37 | 200 | 88% | MDI-H1000-24S27 |
| | 48 | 36-72 | 24 | 41.6 | 200 | 89% | MDI-H1000-48S24 |
| | 110 | 66-154 | 110 | 9.1 | 600 | 89% | MDI-H1000-110S110 |
| | 110 | 66-154 | 48 | 20.8 | 300 | 89% | MDI-H1000-110S48 |
| | 600 | 400-800 | 24 | 41.6 | 200 | 89% | MDI-H1000-600S24 |
| | 600 | 400-800 | 110 | 9.1 | 400 | 89% | MDI-H1000-600S110 |

■说明1：输出纹波噪声（峰值-峰值）采用的是87-88页附录四模块电源测试说明
Output ripple noise (Peak-Peak) is adopted the module power supply test instruction on the page 87-88.

■说明2：仅列出典型型号，其它型号，请确定功率、输入电压及输出电压，致电我公司 400-019-3997
Only typical models listed. If you need other model, please conform the power, input voltage and output voltage, then phone us +86 400-019-3997

## 外形尺寸以及引脚定义 Mechanical drawing and pin definition




单位(Unit):mm

| 输入&输出 in&out | 引脚 PIN | 单路 SING |
|---|---|---|
| 输入 input | 1 | +Vin |
| | 2 | +Vin |
| | 3 | -Vin |
| | 4 | -Vin |
| 输出 output | 1 | +V0 |
| | 2 | +V0 |
| | 3 | -V0 |
| | 4 | -V0 |

输入≥48V

| 输入&输出 in&out | 引脚 PIN | 单路 SING |
|---|---|---|
| 输入 input | 1 | Gr. |
| | 2 | +Vin |
| | 3 | -Vin |
| 输出 output | 1 | +V0 |
| | 2 | +V0 |
| | 3 | -V0 |
| | 4 | -V0 |

注：输入≥300V用高压端子