



## ■ 特性

- ◆ 外型尺寸:116x65x22mm
- ◆ 输入与输出为单边接线端子
- ◆ 高压、五倍电压输入，单、双路输出
- ◆ 金属壳封装，六面屏蔽，多种保护功能

## ■ 产品特性 (除特殊说明，其它所有参数测试条件为：标称输入电压，全阻性标称负载和25℃室温环境)

| 输入特性       |           | 注释 |
|------------|-----------|----|
| 标称值9       | 6~30VDC   |    |
| 标称值12      | 9~18VDC   |    |
| 标称值18      | 9~36VDC   |    |
| 输入电压 标称值24 | 18~36VDC  |    |
| 标称值36      | 18~72VDC  |    |
| 标称值48      | 36~72VDC  |    |
| 标称值110     | 70~150VDC |    |

| 输出特性       |           |                      |
|------------|-----------|----------------------|
| 输出电压精度     | ±1%       |                      |
| 源效应        | ±0.2%     | (标称负载 全电压输入范围)       |
| 负载效应       | ±0.5%     | (标称输入, 10%-100%标称负载) |
| 输出过流保护     | ≥120%Io   |                      |
| 瞬态响应       | ±3%/200us |                      |
| 输出过温保护(壳温) | ≥100℃     | 自恢复(当壳温低于100℃)       |

| 一般特性        |                       |              |
|-------------|-----------------------|--------------|
| 开关频率        | 180KHz                | 典型值          |
| 隔离电压        | 1000Vdc               | 输入对输出        |
|             | 1000Vdc               | 输入对壳         |
|             | 500Vdc                | 输出对壳         |
| 绝缘电阻        | 100MΩ                 |              |
| 短路保护        | 短路自恢复                 |              |
| 温度系数        | 0.03%/℃               |              |
| 工作温度        | -25~+85℃              | 工作壳温(工业级)    |
|             | -40~+85℃              | 工作壳温(军工级)    |
| 储存温度        | -40~+105℃             | 工业级          |
|             | -55~+105℃             | 军工级          |
| 冷却方式        | 外加散热器                 |              |
| 平均无故障时间MTBF | 2×10 <sup>6</sup> hrs | MIL-HDBK-217 |
| 重量          | 261g                  | 标准产品         |

## ■ 产品选型表

| 型号            | 输出功率<br>W | 输入电压范围<br>VDC | 输出纹波<br>mV | 输出电压VDC | 输出电流A | 效率<br>% |
|---------------|-----------|---------------|------------|---------|-------|---------|
|               |           |               |            | Vo      | Io    |         |
| HDB30A-09S05  | 30        | 6-30          | 50         | 5       | 3.0   | 80      |
| HDB30A-09S12  |           |               | 100        | 12      | 2.5   | 81      |
| HDB30A-09S15  |           |               | 120        | 15      | 2.0   | 81      |
| HDB30A-09S24  |           |               | 200        | 15      | 1.25  | 82      |
| HDB50A-18S05  | 50        | 9-36          | 50         | 5       | 10.0  | 80      |
| HDB50A-18S12  |           |               | 100        | 12      | 4.17  | 81      |
| HDB50A-18S15  |           |               | 120        | 15      | 3.33  | 82      |
| HDB50A-18S24  |           |               | 200        | 24      | 2.08  | 82      |
| HDB50A-18S48  |           |               | 300        | 48      | 1.04  | 83      |
| HDB50A-36S05  | 50        | 18-72         | 50         | 5       | 10.0  | 81      |
| HDB50A-36S12  |           |               | 100        | 12      | 4.17  | 82      |
| HDB50A-36S15  |           |               | 120        | 15      | 3.33  | 82      |
| HDB50A-36S24  |           |               | 200        | 24      | 2.08  | 83      |
| HDB50A-36S48  |           |               | 300        | 48      | 1.04  | 84      |
| HDB75A-12S05  | 75        | 9-18          | 50         | 5       | 15.0  | 80      |
| HDB75A-12S12  |           |               | 100        | 12      | 6.25  | 81      |
| HDB75A-12S15  |           |               | 120        | 15      | 5.0   | 82      |
| HDB75A-12S24  |           |               | 200        | 24      | 3.13  | 82      |
| HDB75A-12S48  |           |               | 300        | 48      | 1.56  | 83      |
| HDB100A-12S05 | 100       | 9-18          | 50         | 5       | 20    | 80      |
| HDB100A-12S12 |           |               | 100        | 12      | 8.33  | 81      |
| HDB100A-12S15 |           |               | 120        | 15      | 6.67  | 82      |
| HDB100A-12S24 |           |               | 200        | 24      | 4.17  | 82      |
| HDB100A-12S48 |           |               | 300        | 48      | 2.08  | 83      |
| HDB125A-12S12 | 125       | 9-18          | 100        | 12      | 10.4  | 81      |
| HDB125A-12S15 |           |               | 120        | 15      | 8.33  | 82      |
| HDB125A-12S24 |           |               | 200        | 24      | 5.21  | 82      |
| HDB125A-12S48 |           |               | 300        | 48      | 2.60  | 83      |
| HDB75A-24S05  | 75        | 18-36         | 50         | 5       | 15.0  | 81      |
| HDB75A-24S12  |           |               | 100        | 12      | 6.25  | 82      |
| HDB75A-24S15  |           |               | 120        | 15      | 5.0   | 82      |
| HDB75A-24S24  |           |               | 200        | 24      | 3.13  | 83      |
| HDB75A-24S48  |           |               | 300        | 48      | 1.56  | 84      |

## ■ 产品选型表

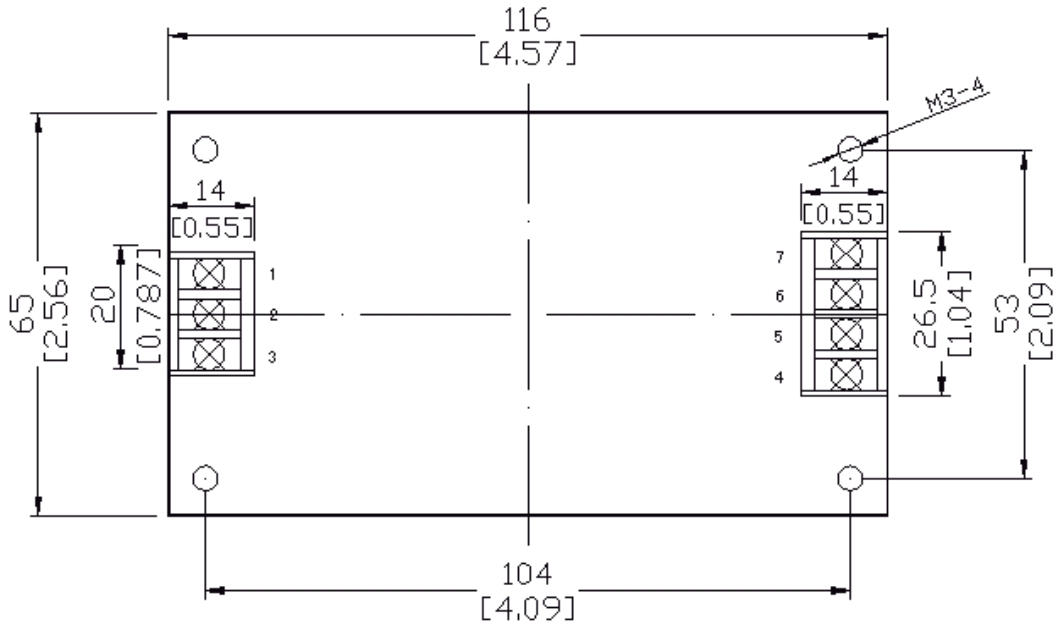
| 型号             | 输出功率<br>W | 输入电压范围<br>VDC | 输出纹波<br>mV | 输出电压VDC | 输出电流A | 效率<br>% |
|----------------|-----------|---------------|------------|---------|-------|---------|
|                |           |               |            | $V_o$   | $I_o$ |         |
| HDB100A-24S05  | 100       | 18-36         | 50         | 5       | 20    | 81      |
| HDB100A-24S12  |           |               | 100        | 12      | 8.33  | 82      |
| HDB100A-24S15  |           |               | 120        | 15      | 6.67  | 82      |
| HDB100A-24S24  |           |               | 200        | 24      | 4.17  | 83      |
| HDB100A-24S48  |           |               | 300        | 48      | 2.08  | 84      |
| HDB125A-24S05  | 125       | 18-36         | 50         | 5       | 25.0  | 81      |
| HDB125A-24S12  |           |               | 100        | 12      | 10.4  | 82      |
| HDB125A-24S15  |           |               | 120        | 15      | 8.33  | 82      |
| HDB125A-24S24  |           |               | 200        | 24      | 5.21  | 83      |
| HDB125A-24S48  |           |               | 300        | 48      | 2.60  | 84      |
| HDB75A-48S05   | 75        | 36-72         | 50         | 5       | 15.0  | 81      |
| HDB75A-48S12   |           |               | 100        | 12      | 6.25  | 82      |
| HDB75A-48S15   |           |               | 120        | 15      | 5.0   | 83      |
| HDB75A-48S24   |           |               | 200        | 24      | 3.13  | 84      |
| HDB75A-48S48   |           |               | 300        | 48      | 1.56  | 85      |
| HDB100A-48S05  | 100       | 36-72         | 50         | 12      | 20    | 81      |
| HDB100A-48S12  |           |               | 100        | 12      | 8.33  | 82      |
| HDB100A-48S15  |           |               | 120        | 15      | 6.67  | 83      |
| HDB100A-48S24  |           |               | 200        | 24      | 4.17  | 84      |
| HDB100A-48S48  |           |               | 300        | 48      | 2.08  | 85      |
| HDB125A-48S05  | 125       | 36-72         | 50         | 5       | 25.0  | 81      |
| HDB125A-48S12  |           |               | 100        | 12      | 10.4  | 82      |
| HDB125A-48S15  |           |               | 120        | 15      | 8.33  | 83      |
| HDB125A-48S24  |           |               | 200        | 24      | 5.21  | 84      |
| HDB125A-48S48  |           |               | 300        | 48      | 2.60  | 85      |
| HDB150A-48S24  | 150       | 36-72         | 200        | 24      | 6.25  | 84      |
| HDB150A-48S48  |           |               | 300        | 48      | 3.13  | 85      |
| HDB100A-110S05 | 100       | 70-150        | 50         | 12      | 20    | 82      |
| HDB100A-110S12 |           |               | 100        | 12      | 8.33  | 83      |
| HDB100A-110S15 |           |               | 120        | 15      | 6.67  | 84      |
| HDB100A-110S24 |           |               | 200        | 24      | 4.17  | 84      |
| HDB100A-110S48 |           |               | 300        | 48      | 2.08  | 85      |

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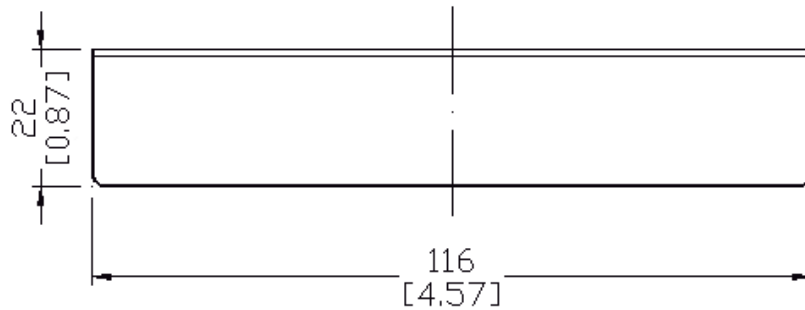
| 型号            | 输出功率<br>W | 输入电压范围<br>VDC | 输出纹波<br>mV | 输出电压VDC | 输出电流A | 效率<br>% |
|---------------|-----------|---------------|------------|---------|-------|---------|
|               |           |               |            | Vo      | Io    |         |
| HDB50A-12D05  | 50        | 9-18          | 50         | ±5      | 5     | 80      |
| HDB50A-12D12  |           |               | 100        | ±12     | 2.08  | 81      |
| HDB50A-12D15  |           |               | 120        | ±15     | 1.67  | 82      |
| HDB50A-12D24  |           |               | 200        | ±24     | 1.04  | 82      |
| HDB50A-24D05  | 50        | 18-36         | 50         | ±5      | 5     | 81      |
| HDB50A-24D12  |           |               | 100        | ±12     | 2.08  | 82      |
| HDB50A-24D15  |           |               | 120        | ±15     | 1.67  | 82      |
| HDB50A-24D24  |           |               | 200        | ±24     | 1.04  | 83      |
| HDB50A-48D05  | 50        | 36-72         | 50         | ±5      | 5     | 81      |
| HDB50A-48D12  |           |               | 100        | ±12     | 2.08  | 82      |
| HDB50A-48D15  |           |               | 120        | ±15     | 1.67  | 83      |
| HDB50A-48D24  |           |               | 200        | ±24     | 1.04  | 84      |
| HDB75A-12D05  | 75        | 9-18          | 50         | ±5      | 7.5   | 80      |
| HDB75A-12D12  |           |               | 100        | ±12     | 3.125 | 81      |
| HDB75A-12D15  |           |               | 120        | ±15     | 2.5   | 82      |
| HDB75A-12D24  |           |               | 200        | ±24     | 1.56  | 82      |
| HDB75A-24D05  | 75        | 18-36         | 50         | ±5      | 7.5   | 81      |
| HDB75A-24D12  |           |               | 100        | ±12     | 3.125 | 82      |
| HDB75A-24D15  |           |               | 120        | ±15     | 2.5   | 82      |
| HDB75A-24D24  |           |               | 200        | ±24     | 1.56  | 83      |
| HDB75A-48D05  | 75        | 36-72         | 50         | ±5      | 7.5   | 81      |
| HDB75A-48D12  |           |               | 100        | ±12     | 3.125 | 82      |
| HDB75A-48D15  |           |               | 120        | ±15     | 2.5   | 83      |
| HDB75A-48D24  |           |               | 200        | ±24     | 1.56  | 84      |
| HDB75A-110D05 | 75        | 70-150        | 50         | ±5      | 7.5   | 82      |
| HDB75A-110D12 |           |               | 100        | ±12     | 3.125 | 83      |
| HDB75A-110D15 |           |               | 120        | ±15     | 2.5   | 84      |
| HDB75A-110D24 |           |               | 200        | ±24     | 1.56  | 84      |
| HDB100A-24D12 | 100       | 18-36         | 100        | ±12     | 4.17  | 82      |
| HDB100A-24D15 |           |               | 120        | ±15     | 3.33  | 82      |
| HDB100A-24D24 |           |               | 200        | ±24     | 2.08  | 83      |
| HDB100A-48D12 | 100       | 36-72         | 100        | ±12     | 4.17  | 82      |
| HDB100A-48D15 |           |               | 120        | ±15     | 3.33  | 83      |
| HDB100A-48D24 |           |               | 200        | ±24     | 2.08  | 84      |

注：由于篇幅有限，只列出常规产品，欲咨询定制产品，请致电公司销售人员。

■ HDBA系列外型尺寸图 (mm[inch])



底视图



侧面图

■ HDBA系列引脚定义

| 引脚 | 单路   |       | 双路   |       |
|----|------|-------|------|-------|
|    | 定义   | 说明    | 定义   | 说明    |
| 1  | CTL  | 输入遥控端 | CTL  | 输入遥控端 |
| 2  | -Vin | 输入负   | -Vin | 输入负   |
| 3  | +Vin | 输入正   | +Vin | 输入正   |
| 4  | +Vo  | 输出正   | +Vo  | 输出正   |
| 5  | +Vo  |       | COM  | 输出公共地 |
| 6  | -Vo  | 输出负   | COM  |       |
| 7  | -Vo  |       | -Vo  | 输出负   |