

## Characteristic

1. Suitable for new energy vehicle application.
2. Equipped with over-voltage, under-voltage, over-current, short-circuit and over-temperature protection.
3. Support CAN bus communication.

| Serial model | Voltage platform | Type of cooling | Weight |
|---|---|---|---|
| PD-BA-0F-96Y | 96Vdc | Natural Cooling | 1.35kg |

## DC/DC 转换器电气参数 DC/DC converter electrical parameters

### 输入参数 Input parameters

| | |
|---|---|
| 输入电压 Input voltage | 64-133Vdc |
| 输入电流 Input current | 10Amax |

### 输出参数 Output parameters

| | |
|---|---|
| 输出电压 Output voltage | 9-16Vdc |
| 额定输出电流 Rated output current | 36A |
| 峰值电流 Peak current | 46A |
| 额定功率 Rated Power | 500W |
| 峰值功率 Peak power | 600W for 6 minutes |
| 电压调整率 Voltage adjustment rate | ≤1% |
| 负载调整率 Load adjustment rate | ≤1% |
| 电压控制精度 Voltage control accuracy | ≤1% |
| 电流控制精度 Current control accuracy | ≤2% |
| 最高效率 Maximum efficiency | ≥93% |
| 纹波电压系数 Ripple voltage coefficient | ≤2%@ rated working status |

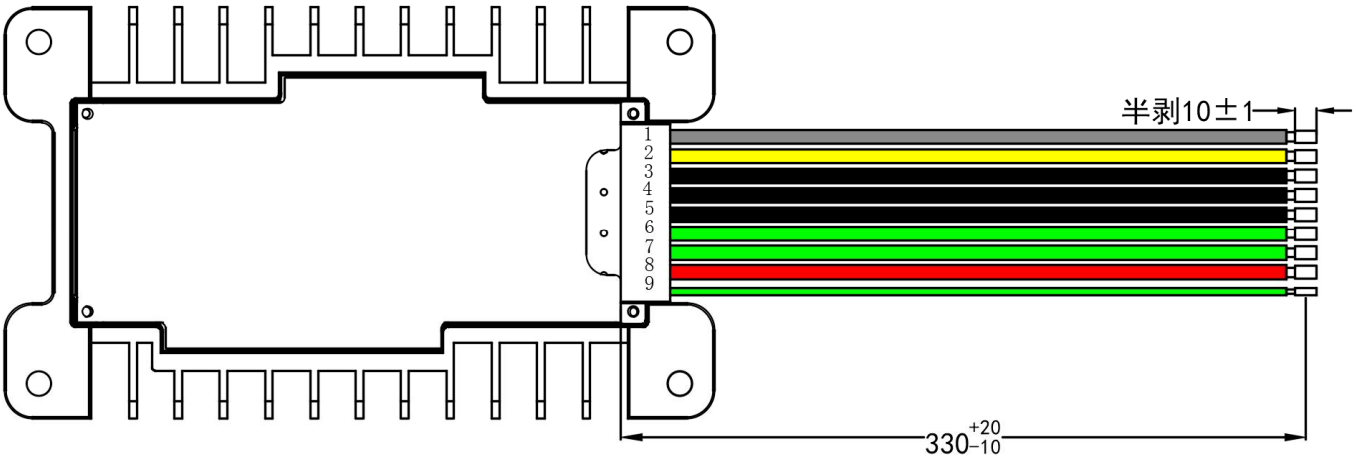
### 保护参数 Protection parameters

| | |
|---|---|
| 输入欠压保护 Input under-voltage protection | ≤60Vdc |
| 输入过压保护 Input over-voltage protection | ≥138Vdc |
| 输出欠压保护 Output under-voltage protection | 7±1V, return to work after voltage ≥ 9±0.2V |
| 输出过压保护 Output over-voltage protection | 16±0.5V, return to normal operation after voltage ≥14±0.2V |
| 输出过流保护 Output over-current protection | Stop output when> 46A |
| 输出短路保护 Output short-circuit protection | Self-recovery after troubleshooting |
| 过热保护 Overheat protection | The internal temperature starts to reduce the power at 85℃, and turned off at 90℃. After the temperature drops, it will recover automatically. |

## 安全参数 Safety parameters

| | |
|---|---|
| 输入绝缘 Input insulation | 20MΩ@500VDC |
| 输出绝缘 Output insulation | 20MΩ@500VDC |
| 输入耐压 Input withstand voltage | 漏电流 Leakage current≤2mA@500VDC 3s |
| 输出耐压 Output withstand voltage | 漏电流 Leakage current≤2mA@500VDC 3s |

## 接口定义 Interface Definition




**Wire Harness Definition:**

**1. Gray wire (Input - , 14AWG 2mm²)**
**2. Yellow wire (Input + , 14AWG 2mm²)**
**3. Black wire (Output: Constant Power - , 14AWG 2mm²)**
**4. Black wire (Output: Controlled 1- , 12AWG 3.5mm²)**
**5. Black wire (Output: Controlled 2- , 12AWG 3.5mm²)**
**6. Green wire (Output: Controlled 1+ , 12AWG 3.5mm²)**
**7. Green wire (Output: Controlled 2+ , 12AWG 3.5mm²)**
**8. Red wire (Output: Constant Power + , 14AWG 2mm²)**
**9. Green wire (+12V Enable Wire, 18AWG 0.75mm²)**

## 安装尺寸 Assembly dimensions

