

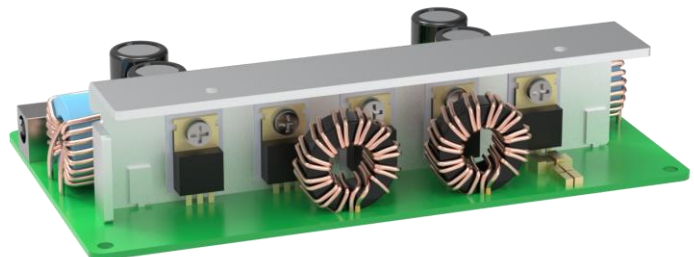
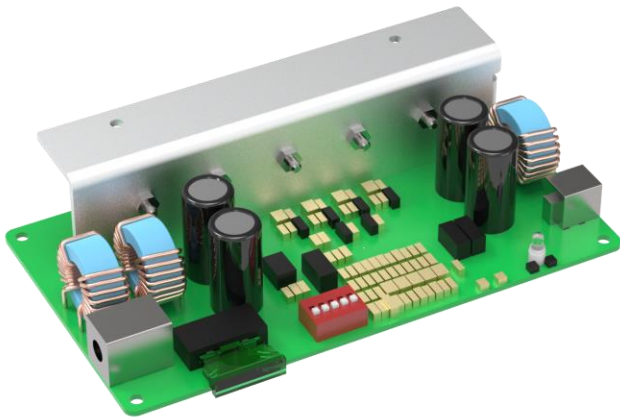
# VES-P1201

Universal Power Supply Module

## Features

- 9 to 36VDC input
- Adjustable 5 different VDC outputs
- Including 12V/10amp, 15.6V/8amp, 19V/7amp, 19.5V/6amp, 20V/5amp
- Input polarity reversed protection
- Spade type fuse protection
- Non-isolated power supply module

## Appearance





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## Revision Table

| Date      | Revision | Content                   | By     |
|-----------|----------|---------------------------|--------|
| 2024/9/11 | 1        | Re-model to New Datasheet | Dennis |

# VES-P1201

Universal Power Supply Module

## Specification

| Parameters            | Min.  | Typ.  | Max. | Units | Notes  |
|-----------------------|---|-------|------|-------|--|
| Input Range           | 9   | 12/24 | 36   | VDC   | Continuous input range.  |
| Efficiency            | 80  | 90    |      | %     | The efficiency should meet $\geq 80\%$ at lowest & highest temperature                                 |
| Operation Temperature | -20   |       | 70   | °C    | Derate linearly above 50°C to a maximum temperature of 70°C<br>By the application of conformal coating |
| Dimensions            | 139 (L) x 78 (W) x 30 (H) mm, Tolerance +/- 1 mm  |       |      |       |  |
| Safety                | IEC/EN/UL 62368   |       |      |       |  |
| EMC                   | EN55032:2015; CISPR32; FCC Part 15, Subpart B: Class B; ICES Issue 7: Class B; RoHS/REACH   |       |      |       |  |
| ESD/ Immunity         | EN55035   |       |      |       |  |
| Note                  | Design to meet above standards, this product has offered the potential to be designed in to gain such certification; however, tests and qualifications for certain certification are needed upon request. The actual efficiency may be affected by final enclosure. |       |      |       |  |

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Universal Power Supply Module

## Specification

| Input          | Min.   | Typ.  | Max.  | Units | Notes                            |
|----------------|--|-------|-------|-------|----------------------------------|
| Input Voltage  | 9  | 12/24 | 36    | VDC   | Continuous input range.          |
| Input Current  |  |       | 18.5  | A     | DC Input Voltage 9VDC, Max load. |
| Inrush Current |  |       | (TBD) | A     | Cold start at 25°C.              |
| Features       | Input undervoltage protection function, Input surge voltage protection function, Input current overload protected (fuse protection). |       |       |       |                                  |

| Output                       | Min.                            | Typ. | Max. | Units | Notes |
|------------------------------|---------------------------------|------|------|-------|-------|
| Output Voltage<br>(1) +12V   | 0                               | --   | 10   | Amp   |       |
| Output Voltage<br>(2) +15.6V | 0                               | --   | 8    | Amp   |       |
| Output Voltage<br>(3) +19V   | 0                               | --   | 7    | Amp   |       |
| Output Voltage<br>(4) +19.5V | 0                               | --   | 6    | Amp   |       |
| Output Voltage<br>(5) +20V   | 0                               | --   | 5    | Amp   |       |
| Efficiency                   | --                              | 90   | --   | %     |       |
| Features                     | Output short circuit protection |      |      |       |       |

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Universal Power Supply Module

## Specification

| Environment           | Min.   | Typ. | Max. | Units | Notes  |
|-----------------------|--|------|------|-------|--|
| Operating Temperature | -20  |      | 70   | °C    | Derate linearly above 50°C to a maximum temperature of 70°C<br>By the application of conformal coating |
| Storage Temperature   | -30  |      | 80   | °C    |  |
| Operating Humidity    | 10   |      | 90   | %RH   | Non-condensing   |
| Storage Humidity      | 10   |      | 95   | %RH   |  |
| Note                  | The above environmental specifications are subject to a proper design of well-ventilated mechanical housing for this power supply, such as a conducted heatsink being used from the housing to the power supply. ACT Power reserves the right to review the design of housing to achieve the final specifications. |      |      |       |  |

## Safety

| Sector        | Details  |
|---------------|--|
| Safety        | IEC/EN/UL 62368  |
| EMC           | EN55032:2015; CISPR32; FCC Part 15, Subpart B: Class B; ICES Issue 7: Class B; RoHS/REACH  |
| ESD/ Immunity | EN55035  |
| Note          | Designed to meet the above standards, this product offers the potential to achieve such certification; however, testing and qualification for certain certifications are available upon request. The actual efficiency may be impacted by the final enclosure. |

# VES-P1201

Universal Power Supply Module

## Deliverables

|   |                               |
|---|-------------------------------|
| 1 | Universal Power Supply Module |
| 2 | Cables (To be customized)     |

## Ordering Information

| Model Name | Description                   | Unit |
|------------|-------------------------------|------|
| VES-P1201  | Universal Power Supply Module | 1    |

