

# TECHNICAL SPECIFICATION

## 24V DC uninterruptible power supply with built-in battery

### AUS-24-1



#### Features

- 24V in and 24V out
- Built-in rechargeable batteries
- Fast charging
- Stable output voltage
- Overload protection
- Over voltage protection
- Output indicating battery operation
- Easy to replace batteries
- Ready for use with all Atreyo gateways
- DIN rail mounting

The AUS-24-1 is a DC UPS designed to safely power IoT devices such as gateways, routers, Ethernet switches and data loggers. It has built-in two user replaceable 18650 cells and charge controller with protection

against over-temperature, over-charging and over-discharge. It features a high efficiency boost converter with short circuit protection.

| Description              | Specification                                                      |
|--------------------------|--------------------------------------------------------------------|
| General                  |                                                                    |
| Input voltage            | 12-26V DC <sup>1</sup>                                             |
| Output voltage           | 24V DC                                                             |
| Maximum continuous power | 20W                                                                |
| Maximum peak power       | 25W (10s)                                                          |
| Power switch             | Slide switch completely cutting off the battery                    |
| Extra features           | Additional open collector output which indicates battery operation |
| Working time on battery  | 20W load approx 25 minutes                                         |
| Connector                | Screw connector 6 pin<br>4-12 AWG, 2.5mm <sup>2</sup>              |

| Description              | Specification                                                       |
|--------------------------|---------------------------------------------------------------------|
| Booster                  |                                                                     |
| Type                     | DC/DC non-synchronous                                               |
| Protection               | Over temperature, under voltage, over current, short, output fuse   |
| Under-voltage function   | When the voltage drops below 21V, it switches to battery operation. |
| Charger                  |                                                                     |
| Type                     | DC/DC                                                               |
| Protection               | Over temperature, over-charging and over-discharge                  |
| Charging current         | 5W                                                                  |
| Charging cut-off voltage | 8.4V                                                                |
| Full charging time       | Approx. 3h                                                          |

<sup>1</sup> If the voltage drops below about 21V then the UPS will switch to Boost Mode. During this time, if external power is still available, the built-in charging system will charge the batteries. For the charger to work, there must be a minimum of 10V. But at the same time they will be discharged by the UPS-powered device.

| Description                        | Specification                             |
|------------------------------------|-------------------------------------------|
| <b>Battery<sup>2</sup></b>         |                                           |
| <b>Type</b>                        | Li-Ion, user replaceable                  |
| <b>Size</b>                        | 18650 x 2                                 |
| <b>Capacity</b>                    | 2600mA (7.2V)                             |
| <b>System Functions Indicators</b> |                                           |
| <b>Indicators</b>                  | IN (green) – power input present          |
|                                    | CHRG (yellow) – charging                  |
|                                    | STB (blue) – charging done                |
|                                    | BAT (red) – the UPS is working on battery |
| <b>Physical Characteristics</b>    |                                           |
| <b>Installation</b>                | DIN-rail                                  |
| <b>Housing</b>                     | ABS                                       |

| Description                        | Specification             |
|------------------------------------|---------------------------|
| <b>Physical Characteristics</b>    |                           |
| <b>Weight</b>                      | Without batteries 100g    |
|                                    | With batteries 190g       |
| <b>Dimensions</b>                  | 90mm x 75mm x 50mm        |
| <b>Environmental Specification</b> |                           |
| <b>Operating temp.</b>             | 0 ~ 50°C (32 ~ 122°F)     |
| <b>Storage temp.</b>               | -20 ~ 60°C (-4 ~ 140°F)   |
| <b>Ambient RH</b>                  | 5% ~ 95% (non-condensing) |

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<sup>2</sup> Also, we offer versions without batteries. Then it is necessary to install the correct batteries.