TECHNICAL SPECIFICATION

ATREYO®
SOLUTIONS THAT SIMPLIFY

24V DC Uninterruptible Power Supply with built-in battery

AUS-24-1



Features

- **24V in ad 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[1]
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 4-12 AWG, 2.5mm^2

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

1 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
Battery[2]	
Type	Li-Ion, user replaceable
Size	18650 x 2
Capacity	2600mA (7.2V)
System Functions Indicators	
Indicators	IN (green) - power input present
	CHRG (yellow) - charging
	STB (blue) - charging done
	BAT (red) - the UPS is working on battery
Physical Characteristics	
Installation	DIN-rail
Housing	ABS

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

For more details scan or click on QR code

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