

TECHNICAL SPECIFICATION

24V DC Uninterruptible Power Supply with inbuilt 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 18650 cells and charge control 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	40W (10s)
Power switch	Slide switch completely cutting off the battery
Extra features	Additional open collector output which indicates battery operation
Connector	Screw connector 6 pin 4-12 AWG, 2.5mm ₂
Booster	
Type	DC/DC non-synchronous

Description	Specification
Protection	Over temperature, under Voltage, over current, short, output fuse
Under-voltage function	Protection against too low an output voltage, switches to battery when voltage is too low.
Charger	
Type	DC/DC
Protection	Over temperature, over-charging and over-discharge
Charging current	1A approx (6 to 7W)
Battery²	
Type	Li-Ion
Size	18650 x 2
Capacity	2500mA (7.2V)

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. But at the same time they will be discharged by the UPS-powered device.

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

Description	Specification
System Functions Indicators	
Indicators	IN – power input present
	CHRG – charging
	STB – charging done
	BAT – the UPS is working on battery
Physical Characteristics	
Installation	DIN-rail
Housing	ABS

Description	Specification
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)

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