

AXONⁱ force UPS



Improving the safety
of your underground
environment

- > Enables composite cable powered solutions
- > Fit for purpose and cost effective
- > Extendible battery capacity
- > Multiple network nodes powered at once
- > Combined power 480W



AXON

force UPS

MST's AXON force UPS is the most extensive of our power supplies offering reliability and peace of mind for hard rock mines and extensive tunnel networks.

The primary purpose of the AXON force UPS is to power-up IP networks in hard rock underground mining environments. Each AXON force UPS is able to support multiple chained network nodes connected via the composite (fibre and power) cable. The chain can extend to approximately 3000m at 500m apart depending on the number of nodes and actual load.

Additionally, AXON force can be paired with an optional remote power supply monitoring kit for enhanced visibility.

SPECIFICATIONS

AC Input

- > 110-240 AC Single Phase

Output Connectors

- > 3 Harting connectors, IP65 rated
- > 2 Additional 25mm cable glands
- > 1 Additional 20mm cable gland

DC Power Output

- > Voltage 56 Volt DC
- > Combined current 10A

External Indicators

- > Battery Discharge
- > Battery Fail
- > DC OK

Main Enclosure

- > Material: Powder coated steel
- > Ingress Protection: IP65
- > Dimensions (mm): 500(h) x 500(w) x 200(d)
- > Weight: ~17kg

Working Temperature & Humidity

- > -40°C to +70°C
- > ~ 5 ... 95% RH

Battery Protection

- > Battery overcurrent protection
- > Battery reverse polarity protection
- > Battery health monitoring system (via MODBUS): measuring battery internal resistance, battery temperature, charge/discharge cycles and Coulomb counter

Battery Configurations

- > 48 Volt, 50AH Batteries
- > 48 Volt, 100AH Batteries (extended configuration)

Battery Enclosure

- > Dimensions (mm): 700(h) x 768(w) x 200(d)
- > Ingress Protection: IP65
- > Weight without batteries: 58kg
- > Weight with 50AH battery: 64kg
- > Weight with 100AH battery: 120kg

Internal Electrical Installation

- > DIN rail TS35/7.5 or 15 terminal blocks

Electrical Components

- > All components EMC complied
- > All components RoHS complied

IP Connectivity

- > IP traffic can be passed from one PoE to the other
- > Optional Remote Monitoring Kit

Constriction

- > Separate battery compartment
- > Space for an optional patch panel and fibre switch

Product Ordering Codes

- > Force UPS 50AH Kit W-AXON-F-50AH-K
- > Force UPS 100AH Kit W-AXON-F-100AH-K