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the future

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ATC

Moving Traffic

Aldridge Traffic Controllers Pty Ltd

UPS SOLUTIONS FOR TRAFFIC CONTROLLERS

Improves traffic safety

Fit for purpose solutions

Improves maintenance outcomes



UPS SOLUTIONS FOR TRAFFIC CONTROLLERS

To maintain a continuously safe and reliable traffic flow during a power outage, ATC has developed two uninterruptible power supply (UPS) strategies to keep traffic signals in full operation during power outages, brownouts and AC Mains frequency variance.

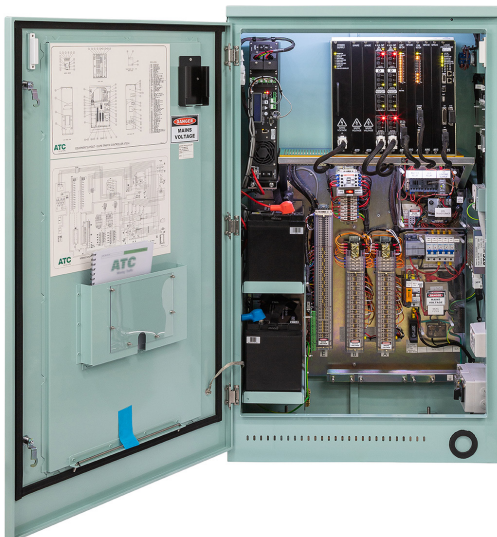
Integrated Controller With UPS (ICUPS)

The ATSC4 Integrated Controller with UPS is a compact, integrated single housing solution designed to continuously maintain power and improve safety during a power failure at smaller intersections with up to 12 Signal Groups.

External Controller UPS (ECUPS)

Housed in an additional external cabinet adjacent to the traffic signal controller cabinet, the ECUPS solution can maintain power for up to 32 signal groups, and is ideally suited for large intersections.

UPS Housing



INTEGRATED UPS HOUSING (ICUPS)



EXTERNAL UPS HOUSING (ECUPS)

ECUPS and ICUPS

Functionality

- Continuous operation in the event of a power outage, brownout and AC Mains frequency variance.
- Monitored UPS status contacts for reporting.
- UPS provides an independent event and alarm log in addition to the ATSC4 controller's own event and alarm log.
- Bypass Switch with Auto Transfer to galvanically isolate UPS during operation.
- Includes an LCD touch screen to navigate the various functions of the UPS.
- Supports both lithium and gel-based battery types in a mono-block design.
- The batteries are employed for durability and low maintenance – a sophisticated temperature sensing system adjusts charging according to battery temperature allowing batteries to work over a wide temperature range.
- Compatible with all power supply types.
- Wide temperature operating range (-40°C to +74°C).



ECUPS EXTENDABLE SHELVING

ICUPS

- Maximum load 450W.
- Single Housing Power Backup Solution - UPS and batteries are installed within the Controller housing, enabling ease of access by maintenance personnel.

ECUPS

- Maximum load 1400W.
- The additional housing has the same dimensions as the standard housing and controller footing, enabling easy installation and maintenance.
- Extendable shelving for ease of battery access for maintenance and replacement.

Large UPS (>2KVA)

- Should an intersection require more than 1400Watt load to run, ATC can offer larger capacity UPS in 3, 4 and 5KVA versions in a custom housing and battery backup on a bespoke basis. These are available in both offline and fully online models.

SNMP V2 Support

- The Inverters used are all equipped with an Ethernet port that can be connected to the corporate LAN for Network Monitoring Systems to monitor all aspects of the running UPS in real time.



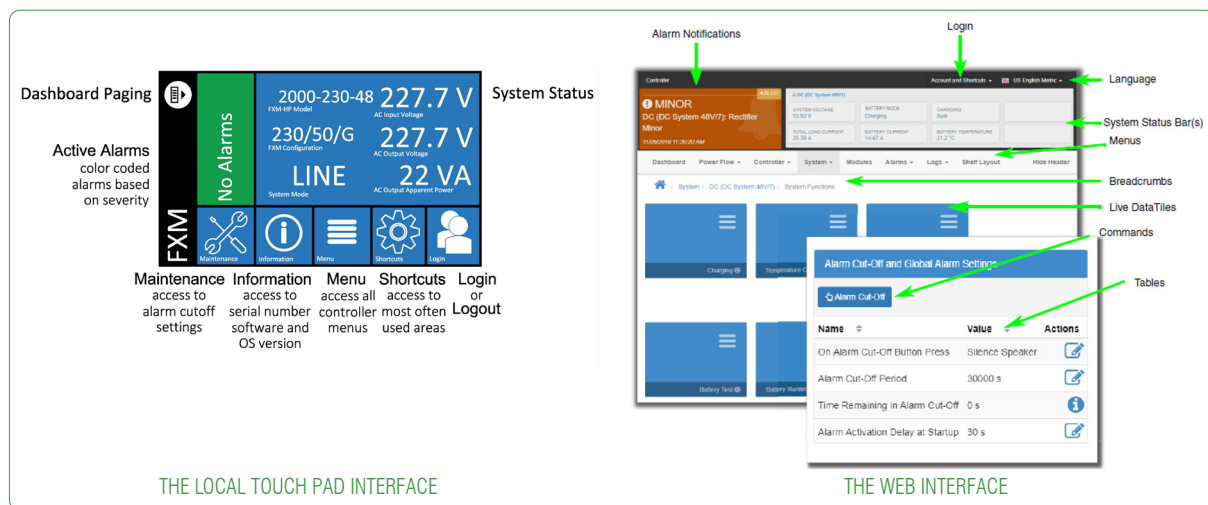
USER INTERFACE

UPS SOLUTIONS FOR TRAFFIC CONTROLLERS

User Interface

The Inverter has two user interfaces available, one via a graphical touch pad on the UPS and the second via a secure web interface that provides access to all the menu and configuration pages.

The UPS has status relay contacts that can be monitored by the traffic signal controller.



Weight, Load Figures and Back-up Times

UPS Type	Weight (kg)	Inverter Type	Battery Back-up Times
ECUPS with 8 <i>Gel</i> Batteries (Under 1000W Load)	400	FXM2000	7h20
ECUPS with 8 <i>Lithium</i> Batteries (Under 1000W Load)	272	FXM2000	>9h
ECUPS with 4 <i>Gel</i> Batteries (Under 1000W Load)	280	FXM2000	3h10
ECUPS with 4 <i>Lithium</i> Batteries (Under 1000W Load)	216	FXM2000	>5h30
ICUPS with 2 <i>Gel</i> Batteries in 8SG ATSC4 Controller (Under 350W Load)	150	FXM650	5h50
ICUPS with 2 <i>Lithium</i> Batteries in 8SG ATSC4 Controller (Under 350W Load)	118	FXM650	>6h30
1 x <i>Gel</i> Battery	30	n/a	n/a
1 x <i>Lithium</i> Battery	14	n/a	n/a



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