



Choose  
the future

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Choose

**ATC**  
*Moving Traffic*

Aldridge Traffic Controllers Pty Ltd

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**UPS SOLUTIONS FOR  
TRAFFIC CONTROLLERS**  
“CONTINUOUSLY MOVING TRAFFIC”

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Improves traffic safety

Fit for purpose solutions

Improves maintenance outcomes



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## UPS SOLUTIONS FOR TRAFFIC CONTROLLERS

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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.

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### 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 8 Signal Groups.

### External 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.



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## “CONTINUOUSLY MOVING TRAFFIC”

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### 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 isolate UPS during operation.
- Includes an LCD screen and keys to navigate the various functions of the UPS.
- GEL-based batteries 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)

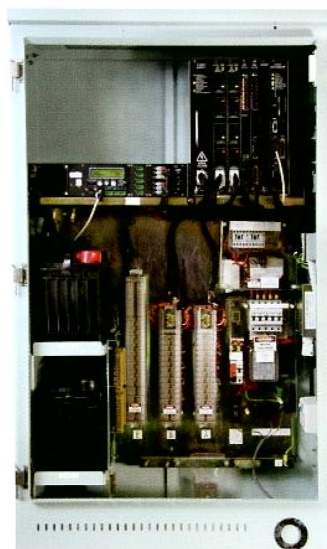
### ICUPS

- Backup time of up to 4.5 hours on a maximum load of 450VA over 8 signal groups (longer for 4 groups or less).
- Single Housing Power Backup Solution - UPS and batteries are installed within the Controller housing, enabling ease of access by maintenance personnel.

### ECUPS

- Supports a maximum total load of 2000VA (1400W) for up to 4.5 hours.
- The additional housing has the same dimensions as the standard housing and controller footing, enabling easy installation and maintenance.

INTEGRATED UPS HOUSING



EXTERNAL UPS HOUSING



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## BATTERY BACK-UP FLASHER SUPPLY (BBFS)

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If cost is an issue, the BBFS offers a cost-effective alternative to a UPS for large intersections. The BBFS has been designed to support the operation of a flashing yellow signal on all approaches to an intersection in the case of a power failure. The flashing yellow warns approaching traffic that the signals are not in operation.

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### Functionality

- Flashing yellow display in the event of a power outage
- Can be fitted to the ATSC4 Traffic Signal Controllers with up to 16 Signal Groups
- Load output capability to a maximum of 350VA
- Automatically switches the output drive to the flasher unit when power is lost to the ATSC4
- Can also be operated via manual push button
- Compatible with all power supply types
- De-activates when mains power is restored and goes into recovery mode, charging the Lithium-Iron-Phosphate cells until recharged.
- The LiFePO4 type batteries provide high energy density in a small compact form and have intelligent charging algorithms to manage the recharging process.
- Retrofit kit enables easy retrofitting into existing ATSC4 Traffic Signal Controllers.
- Monitored BBFS status contacts for event logging.
- Fault latch prevents operation during over current, under voltage or tip over.

[www.atsc4.com.au](http://www.atsc4.com.au)

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