



ATCC Plus™

Advanced Traffic Controller
Cabinet (ATCC) Plus



ATCC Plus: Safer, smaller, and more efficient with alternative power options

The Safetran ATCC Plus™ is built to meet or exceed the ATC 5301 V02 ATCC Standard and includes an intelligent cabinet design based on the most popular features of Safetran's Caltrans, NEMA, and ITS cabinets. The ATCC Plus uses high-speed serial communications, providing modern features, advanced diagnostics, enhanced safety, simplified cabinet wiring, and reduced cabinet size. The ATCC Plus supports both 120 VAC and 48-volt DC signal heads, while high-density load switches and quad detector modules allow for up to 32 signal outputs and 120 detection inputs.

The ATCC Plus provides both voltage and current monitoring of all signal outputs with ultra-low-power LEDs. The innovative Safetran power assembly accepts 120 VAC and a variety of alternative off-grid power sources, providing safer, smarter, and "greener" intersection operations.

The ATCC Plus is also designed to meet FCC Part 15 Class A, IEC61000-4-2, IEC61000-4-4, IEC6100-4-5, UL60950-22, and NFPA 70 article 110-27 and UL508 depending on selected configuration.



Power Assembly

The intelligent Power Assembly, designed to work in ATC-type controllers, can be ordered in two different configurations: 1) AC-only configuration which drives standard 120 VAC LED signals without Battery Backup System (BBS); and 2) DC configuration for driving 48 VDC signal heads and includes BBS capabilities. Features include:

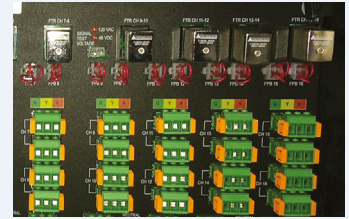
- The flasher, located in the Power Assembly, keeps the intersection running in flash mode during maintenance or equipment replacement.
- Optional Maximum Power Point Tracking (MPPT) solar charge controller, or solar battery charging system with the 48 VDC configuration
- Supports alternative power solutions to enable off-grid operation
- Clean power outlets for voltage sensitive electronic equipment
- Support for multiple NEMA TS-2 detection devices
- 16 NEMA-compliant 24-volt I/O ports provide additional user definable functionality flexibility
- Serial bus connectors enable assemblies to be "daisy-chained" together
- 15-pin Molex connector array provides standardized single connector to power all assemblies in the cabinet
- Power Supply: 24 and 48 VDC
- Dimensions: 9 in L x 5.25 in H x 19 in D





Output Termination Assembly

Each Output Termination Assembly supports 16 channels. It is designed to provide mounting flexibility for rear or front cabinet access, and at different angles and depths to optimize field wiring configurations and ease of maintenance. The assembly also provides 48 VDC and 120 VAC source outputs to confirm signal head function before the load switches are installed. Features include:



- HD flash transfer relays with LED indicators
- Miniature flash program blocks
- Configurable for 48 VDC or 120 VAC operation
- Each output line is protected by a three-stage, over-current, and transient protection circuit
- Transparent rear panel to observe transient protection circuit condition
- Test ports for easy installation and for signal display unit

Service Panel Assembly (SPA)

AC power is attached to the cabinet through the SPA which provides two terminal blocks, one for utility power input and another for generator connection. Features include:



- Power transfer relay automatically changes over to remote power input
- 10-AMP main breaker and 15-AMP GFI breaker
- TEES-compliant plug-in 40,000-volt transient suppressor module
- EMI/RFI filtering
- Right side mounting
- "Touch Safe" enclosure
- Rack mount option available

ATCC Plus Options

332 66"H x 24"W x 30"D

332S 66"H x 24"W x 30"D

332D 67"H x 48"W x 30"D

333S 48"H x 42"W x 21"D

333SD 62"H x 44"W x 26"D

340 67"H x 44"W x 26"D

336 46"H x 24"W x 22"D (50/50 only)

336 46"H x 24"W x 22"D (50/50 only)

337 46"H x 24"W x 22"D (50/50 only)

P38 DDE 55"H x 38"W x 26"D

P44 DDE 55"H x 44"W x 26"D

P65 DDE 65"H x 44"W x 26"D

R77 DDE 77"H x 44"W x 26"D

M60 DDE 60"H x 30"W x 17"D