



TESCO Traffic 27-22BBS Low Profile Service pedestal and back-to-back battery backup system.

TESCOFLEX® Low-profile, underground service distribution and control pedestals have become the standard for state, county, municipal, highway, and public works departments. Pedestals are constructed of the highest grade of material, whether it's our standard 12 gauge hot dipped galvanized steel, optional stainless steel or anodized aluminum. Our coatings will withstand the most stringent testing applied to outdoor enclosures and meet or exceed state specifications. Our wide range of sizes and options allows for maximum utilization of your space.

Uninterrupted, conditioned power (true pure sine wave) is provided for the Traffic Controller Cabinet to eliminate Black-outs, Brown-outs and Spikes on the LED signals and the control equipment. A typical intersection with a power outage, will operate as normal for 2 hours of run time and a selectable 6-8 hours of flash. Upon normal power resumption, the system recharges to 95% within 6 hours. Batteries are quick, hot swap replacement with no exposed terminals. The system monitors and records transient events and even self-tests the batteries and provides local and remote data. TESCO Traffic BBS is safe to operate and test, and inexpensive to maintain.



Battery Backup System

Features:

- 1400 VA, 950 Watts, Industry Standard run time 3 hours - all LED Inter-section. Additional backup times available)
- Typical Inter-section (700 watts) run time 2 hours, with 6-8 hours of selected flash.
- No tools required for inverter I/O contact connections and simple slide-in installation, weights 28 lbs.
- Full power bypass and isolation switches.
- Smart Power Analyzer with triple redundant bypass, Conditioned power, Power Conflict Monitor with isolation and transfer module, Watchdog timer with redundant 5 ms delay and hard transfer to utility power.
- RS 232 and USB ports for local or remote monitoring.
- 24V 18AH batteries AGM/VRLA (absorbed glass mat/valve regulated lead acid), compact, lightweight only 25 lbs.

Service Pedestal Features:

- Small, low profile, and attractive with no exposed fasteners
- Fabricated from hot dipped galvanized sheet steel. Oven baked polyurethane powder coated finish for lasting durability. Also available in stainless steel or anodized aluminum.
- Durable all welded construction
- Vandal proof doors with hasp stress rated to 2,000 tbs
- Each cabinet is factory wired and tested before shipment
- UL approved copper cable busing and control wiring
- Meets EUSERC requirements
- Available both unmetered and metered up to 200 Amps

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TESCO Traffic 27-22BBS Low Profile Service pedestal and back-to-back battery backup system.

Cabinets & Power Specifications for Model 27-000 service pedestal back-to-back with 22-BBS Cabinet Fabrication

- Dual Cabinets external dimensions: 20.5" Wide x 50' High x 19.25" deep, excluding door handles.
- Cabinet shall be fabricated from 12 gauge hot dipped galvanized steel, 118" anodized aluminum, or 304D stainless steel.
- Internal parts shall be fabricated from 14 gauge cold rolled steel.
- Cabinet shall be all welded construction with welding materials specifically designed for the material used.
- All fasteners, latches, and hardware shall be of stainless steel and all hinges shall be continuous piano style.
- There shall be no exposed nuts, bolts, screws, rivets, or other fasteners on the exterior.
- Removable backpan shall be mounted on 4 welded 1/4" studs.
- Cabinet doors shall have 2,000 lb. stress rated hasp, welded to the cabinet and door.
- Cabinets shall have fully framed side hinged outer doors with swagged close tolerance sides for flush fit with top drip lip and closed cell neoprene flange compressed gaskets.
- Base mounting detail shall be identical to existing cabinets for emergency replacement.

Deadfront Safety Door

- Distribution and control panel shall have a hinged deadfront panel with 1/4 turn latch and knurled knobs.
- Deadfront shall be hinged on the same side as the front door and shall open a minimum of 120°.

Power Distribution Panel

- Main breakers shall be 1 pole, 2 pole, 3 pole, or 4 pole.
- Provide separate metered main, lighting main & disconnects as required.
- There shall be no plug-in circuit breakers. Circuit breakers shall be industrial grade.
- All branch circuit breakers shall be installed in a vertical position, handle up for 'On'. handle down for 'Off'.
- All busing shall be U.L. approved copper THHN cable busing, fully rated.

Battery Backup System

- Vandal- resistant construction.
- 1400 VA, 950 Watts, Industry Standard run time 3 hours - all LED Inter-section. (Additional backup times available).
- Typical Inter-section (700 watts) run time 2 hours, with 6-8 hours of selected flash.
- Inverter Tit-out housing for easy maintenance.
- No tools required for inverter 110 contact connections and simple slide-in installation, weights 28 lbs.
- Full power bypass and isolation switches.
- Transient voltage protection.
- Smart Power Analyzer with triple redundant Bypass
 - Conditioned power
 - Power Conflict Monitor with isolation and transfer module
 - Watchdog timer with redundant 5 ms delay and hard transfer to utility power
- Smart slot communications I/O module.
- RS 232 and USB ports for local or remote monitoring.
- Intelligent battery management system with microprocessor controlled smart battery charger, automatic self test, cell guard for longer life and faster recharge times.
- 24V 18AH batteries AGM/VRLA (absorbed glass mat/valve regulated lead acid), compact, lightweight only 25lbs.
- Seismically rated fixed position framed battery trays.
- Quick swap hot battery replacement system.
- Heavy duty smart safety battery connection system, 30A silver plated plugs.
- Battery Manufacturer's 2 year warranty.

Control Compartment:

- All components shall match existing components in use for maintenance of spare parts and known reliability.
- The cabinet shall be completely prewired in the factory.
- All control wiring is 19 strand #14 AWG THHN.
- All terminals shall be permanently labeled.

Nameplates and Drawings

- The function of all circuit breakers, switches and other components as required shall be identified by laminated engraved plastic nameplates fastened with minimum of two 1/4", #4-40 machine screws.

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