

## SECTION 32 – “UPS” FOR TRAFFIC SIGNALS

### 32-1 GENERAL CABINET CONSTRUCTION

Cabinet shall be Tesco 22 UPS 1400XL-7 or approved equivalent. Cabinet shall be all welded construction, fabricated from polydure stainless steel and rated weatherproof NEMA 3RX. Anodized Aluminum and Hot Dipped Galvanized Steel, powder coated, may be considered. All fasteners, latched, hinges and hardware shall be stainless steel. Exposed nuts, bolts, screws, rivets, or other fasteners on the cabinet exterior shall not be permitted. Cabinet door shall be fully framed continuous hinge with swaged close tolerance sides for flush fit with top drip lip and closed cell neoprene flange compressed gaskets. Dimensions and construction shall match existing service pedestal. The cabinet shall meet UL 08 industrial control panel design. The cabinet shall have vandal proof doors and asp stress rated to 200 lbs. The interior cabinet shall be factory wired and tested before shipment.

### 32-2 SPECIFICATIONS

Number of Slot Bays	1
Maximum Dimensions, weight (H x W x D)(in.)	46" x 20" x 9" 250 lbs with batteries
Replacement Battery Cartridge	RBC 7
Transfer Time (Typical)	2 milliseconds, includes detection time
On-Battery Output Voltage	True pure sine wave output at 120 Vac +/-5%, -10% after low battery warning, synchronized to utility line.
Capacity (volt-amps, watts)	1400VA, 950 watts
Surge energy rating, peak current capability	480 J 6.5kA
Normal, common mode clamping response time	0 nx, <5ns typical, meets UL1449
Normal mode surge voltage let through (IEEE 587 Cat. A 6kV test)	<0.3% of peak typical
Batteries	Compact, sealed, maintenance-free lead acid with up to 3-year typical lifetime, individually fused.
Online Battery Replacement	Quick swap with smart plug connectors
Recharge time to 95% capacity	6 hours
Ambient Operation	10,000 ft. max. elevation, 0 – 95% humidity non-condensing; -37 deg C (optional adder) to + 74 deg C
Temperature tested electronics	To 170 deg F for 8 hours
Conditioned Power	Computer quality conditioned power
UL Design	Yes
Transient lighting Protection	160 Jules
Audible noise at 3.3 feet	<45 dBA
Full Power Bypass & Isolation Module	SPACT and PCM for full triple redundant bypass and isolation
Extended runtime battery pack options	7 batteries standard, additional option up to 16 batteries