



Critical & Emergency Power Systems, Inc.

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PLEASE DELIVER TO: **Robert Lewis**

PROJECT: **Traffic UPS for City of Suffolk**

Submittal

Provide one self-contained traffic UPS system with natural gas generator backup. Order CEPSI p/n [TRUPS-4](#) for a system with the following options:

1. Self-contained, gas fired, DC generator, pad mounted

- A. All aluminum, cool-touch enclosure, powder-coat gray, 41" w X 44" h X 24" d, 383 lbs.
- B. Removable F/R service panels w/ dual ACE locks (all your units are keyed alike)
- C. Kohler 389cc air-cooled NG/LP DC generator on slide-out tray (configured for NG)
- D. Alpha Electronic engine control module (ECM)
- E. Internal gas-leak sensor
- F. Cabinet water intrusion sensor
- G. Cabinet movement sensor (pad shear installed by CEPSI at start-up)
- H. Tamper sensors on both service panels
- I. Enclosure air filter, washable
- J. Gas service pressure-regulator in external locking enclosure (padlock by others)
- K. 12vdc enclosure ventilating fan
- L. 12v maintenance-free cranking battery (provided & installed by CEPSI at start-up)
- M. One (1) spare 75 amp generator output fuse (provided at start-up)
- N. One (1) spare ¼ amp AC sense line fuse (provided at start-up)
- O. One (1) set of operation & maintenance manuals.

2. Self-contained UPS system, pad mounted (mates w/ #1 above)

- A. All aluminum enclosure w/ hinged door & Corbin #2 lock, mill finish, 24" w X 44" h X 18" d, 138 lbs.
- B. Alpha FXM-1100 UPS, 120v, 1100W, with Web/SNMP interface (provided at start-up)
- C. Maintenance-free VRAGM batteries, 12v, 50Ah, (4) (provided at start-up)
- D. CEPSI fail-safe automatic bypass
- E. Enclosure ventilating fan, 120vac, thermostat controlled
- F. LED service & trouble light, rechargeable (provided at start-up)
- G. One (1) set of operation & maintenance manuals

3. System installation kit

- A. Site plan drawing & pad drawing (emailed to installing contractor)
- B. Vapor barrier for installation between pad and cabinets
- C. Installation instruction set
- D. Two 2" chase-nipples
- E. AC sense cable, fused (installed by CEPSI at start-up)
- F. Generator DC load cables w/ connectors (installed by CEPSI at start-up)
- G. DC cable set for UPS w/ 4 batteries (installed by CEPSI at start-up)
- H. Battery temperature sensor (installed by CEPSI at start-up)
- I. Plug-in TVSS
- J. Keys, one for generator & one for UPS

4. System start-up service (after gas & elect. are installed)

- A. Provide & install: (these items are not shipped with the generator)
 - a) Generator cranking battery
 - b) Alpha FXM-1100 UPS unit
 - c) Four UPS batteries
 - d) LED service light
 - e) Spare fuses
- B. Inspect generator & UPS cabinet installation & check gas plumbing for leaks
- C. Start-up and test UPS system
- D. Start-up and test generator system (verify proper oil level and no leaks)
- E. Transfer traffic-signal equipment to UPS backup
- F. Simulate power-failure and monitor UPS & traffic system for proper operation
- G. Verify automatic operation of generator during simulated power failure.
- H. Complete system startup checklist and report
- I. Initiate warranty validation to begin warranty

5. Warranty

- a. Generator & Electronics - 24 months from startup, repair or replace
- b. Batteries - 12 months from startup, replace
- c. Provider - CEPSI
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