



## EXPLOSION PROTECTION TRANSFORMER AND BATTERIES

### DESCRIPTION

The modular design of Fike's EPACO™ system allows the selection of necessary components needed to meet the requirements of the installation. Two of the components include transformer and batteries. These components compliment the power supply unit (PSU) of EPACO™.

The transformer converts the high voltage AC to the 24V AC required for the PSU operation, and is available in two models:

- P/N 02-10644 Transformer 120/240 VAC 50/60 Hz

The batteries provide the supervised 24 VDC back-up power for the PSU. Two 12 VDC batteries are required for each PSU. Batteries are available in 7.2, 12, 18, 33 and 75 AH capacities, as follows:

- P/N E10-0082-1 (2) 12 VDC, 7.2AH Batteries with 1m (3 ft) wiring harness
- P/N E10-0082-2 (2) 12 VDC, 12AH Batteries with 1m (3 ft) wiring harness
- P/N E10-0082-3 (2) 12 VDC, 18AH Batteries with 1m (3 ft) wiring harness
- P/N E10-0083-1 (2) 12 VDC, 33AH Batteries
- P/N E10-0083-2 (2) 12 VDC, 75AH Batteries



Transformer



Battery

### STANDARD FEATURES/SPECIFICATIONS

#### Transformer:

- 250 VA, 50/60 Hz
- 100/120/240 VAC Primary
- 25 VAC Secondary
- DIN rail mount
- Finger Safe Covers Provided
- Size: 100mmL x 140mmH x 90mmD (3.8"L x 5.3"H x 3.5"D)
- Weight: 3.9 kg (8.6 lbs.)

#### Batteries\*:

- 7.2 AH Batteries
  - Voltage: 12 VDC
  - Termination: Spade Terminals
  - Size: 151mmL x 65mmH x 102mmD (5.94"L x 2.57"H x 4"D)
  - Weight: 2.7 kg (6 lbs.)
- 12 AH Batteries
  - Voltage: 12 VDC
  - Termination: Spade Terminals
  - Size: 151mmL x 98mmH x 102mmD (5.94"L x 3.86"H x 4"D)
  - Weight: 4.3 kg (9.4 lbs.)

- 18 AH Batteries
  - Voltage: 12 VDC
  - Termination: Nut and Bolt
  - Size: 183mmL x 76mmH x 168mmD (7.2"L x 3"H x 6.6"D)
  - Weight: 6.2 kg (13.6 lbs.)
- 33 AH Batteries
  - Voltage: 12 VDC
  - Termination: Nut and Bolt
  - Size: 198mmL x 132mmH x 188mmD (7.8"L x 5.2"H x 7.4"D)
  - Weight: 12.1 kg (26.7 lbs.)
- 75 AH Batteries
  - Voltage: 12 VDC
  - Termination: Nut and Bolt
  - Size: 262mmL x 175mmH x 226mmD (10.3"L x 6.9"H x 8.9"D)
  - Weight: 23.6 kg (52 lbs.)

\* Specifications are per each battery; two batteries required for each PSU.

### APPROVALS

- UL Listed as type 3AH
- CE marked (LVD tested and approved)
- CSA Certified

### Typical Battery Capacity Calculations\*

| Backup Time       | 4 hrs   |         | 24 hrs  |         |
|-------------------|---------|---------|---------|---------|
|                   | 0%      | 15%     | 0%      | 15%     |
| 1 EPC             | 2.5 AH  | 2.9 AH  | 15.0 AH | 17.2 AH |
| 1 EPC and 1 RC8   | 3.2 AH  | 4.3 AH  | 22.2 AH | 25.5 AH |
| 4 EPCs            | 5.8 AH  | 6.7 AH  | 34.8 AH | 40 AH   |
| 4 EPCs and 4 RC8s | 10.6 AH | 12.2 AH | 63.6 AH | 73.1 AH |

\* One Power Supply Unit and one Annunciator Module. Contact Fike for other options.

\*\* Factory Mutual recommends a 15% minimum derating factor for battery backup systems.

EPC: Explosion Protection Controller

RC8: Relay Card

