

# SOFC Technical Data

## ESTIMATED PERFORMANCE

### POWER OUTPUT

|                            |                        |
|----------------------------|------------------------|
| Power @ Plant Rating       | 250 kW                 |
| Standard Output AC Voltage | 480 V                  |
| Frequency                  | 60 Hz std., 50 Hz opt. |
| Optional Output AC Voltage | 240, 208 V             |

### EFFICIENCY

|                   |           |
|-------------------|-----------|
| LHV (Natural Gas) | 82 +/- 2% |
|-------------------|-----------|

### AVAILABLE HEAT

|   |                |
|---|----------------|
| Exhaust Temperature                           | 875 +/- 20 F   |
| Exhaust Flow                                  | 1900 lb/hr     |
| Available Backpressure                        | 5 inwc         |
| Heat Energy Available for Recovery (to 120 F) | 289,000 BTU/hr |

### FUEL CONSUMPTION

|                      |              |
|----------------------|--------------|
| NG (@ 20,000 BTU/lb) | 23.7 scfm    |
| Heat Rate (LHV)      | 5420 BTU/kWh |

### WATER CONSUMPTION

|                       |       |
|-----------------------|-------|
| Power Generation Mode | 0     |
| Startup               | 3 GPM |
| Water Discharge       | 0     |

### POLLUTANT EMISSION

|      |                |
|------|----------------|
| NOx  | 0.01 lb/MWh    |
| SOx  | 0.0001 lb/MWh  |
| PM10 | 0.00002 lb/MWh |
| VOC  | Negligible     |

### GREENHOUSE GAS EMISSIONS

|     |            |
|-----|------------|
| CO2 | 760 lb/MWh |
|-----|------------|

### NOISE LEVEL

|          |                    |
|----------|--------------------|
| Standard | < 80 dBA @ 10 feet |
| Optional | 65 dBA @ 10 feet   |



|                  |      |                  |            |
|------------------|------|------------------|------------|
| A Overall Height | 8 ft | C Overall Length | 34 ft      |
| B Overall Width  | 8 ft | Weight:          | 65,000 lbs |