

# SPECIFICATION SHEET

# ARC

## 8kWe Peak Power Output

### Micro Turbine Generator

February 12, 2025



## SPECIFICATIONS

### FEATURES

Available Output: DC or 3-Phase AC  
Available Variants: Low Voltage (LV) and High Voltage (HV)  
Full Auto: Start / Restart / Fuel Prime / Cool-down  
Fully reprogrammable controller  
Internal Start-up Battery with self-recharging  
Adjustable and fully governed output voltage  
Ready-to-use out of the box

### PHYSICAL PROPERTIES

Mass (LV/HV): 22lb (10kg) / 25lb (12kg)  
Mass (LV/HV) – core only: 18lb (8kg) / 22lb (10kg)  
Dimensions (L x W x H) 20in x 11in x 7in (0.5m x 0.3m x 0.07m)

### PERFORMANCE

Power (peak): 8.0kWe  
Adjustable Output (LV): 25V – 75V  
Adjustable Output (HV): 250V – 750V  
Optimal Voltage (LV / HV): 62V / 620V  
Turbine Rotational Rate (max): 140,000RPM  
Alternator Rotational Rate (max): 10,000RPM  
Thrust Output (max): 8.3lbf (37N)  
Startup Altitude (Max): 1.2mi (2km)  
Operating Altitude (Max): 6mi (10km)  
Operating Temperature: -20F to 100F (-5C to 40C)

### POWER PLANT

Prime Mover: Microturbine Jet-Engine  
Start-up time: 30sec  
Fuel Type: Heavy (Kerosene/Diesel/Jet-A)  
Lubrication (mixed in fuel): 3% Turbo Oil  
Fuel Flowrate (peak power): 0.08Gal/min (0.3L/min)  
Air Flowrate (peak power): 35CFM (1000L/min)  
Exhaust Temperature: 1200F (650C)  
Maintenance Interval: 50Hrs  
Noise Level (max): 95dB

### INTERFACES

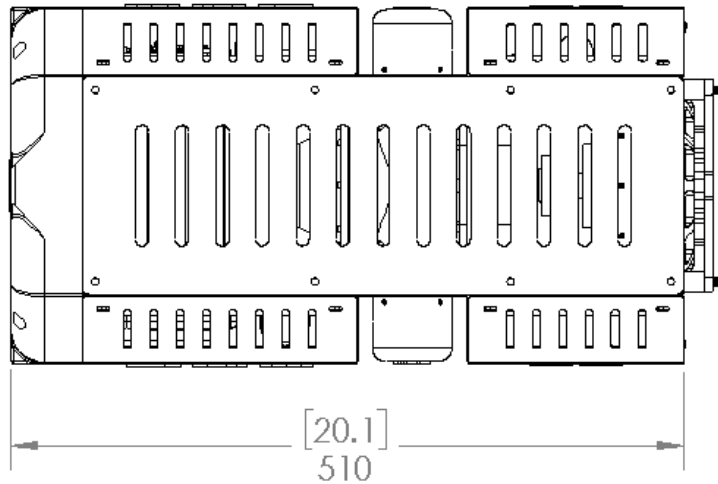
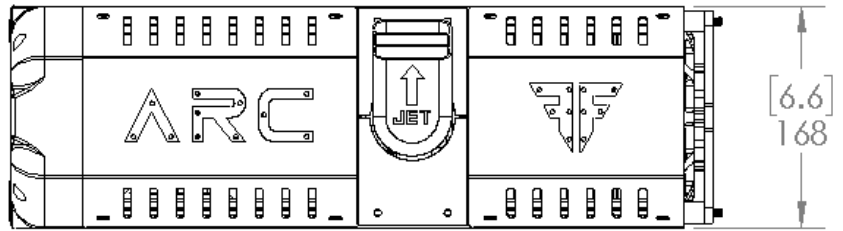
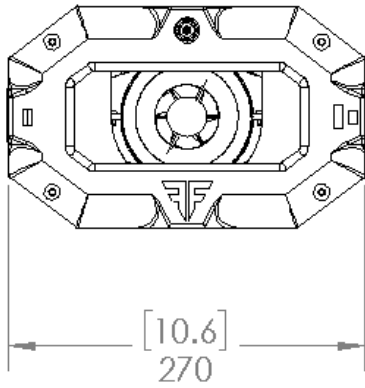
Supply/Return Fuel: 2X 1/4in (6mm) OD Hose  
Electrical Load: 2x M6 Ring Terminals



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# ENGINEERING DRAWING



**DIMENSIONS FORMAT: [IN] MM**

**INCLUDED IN KIT**  
(Comes with every kit)

Wired Remote Control  
Fuel Tubing  
Power Cables

Carrying Handle  
AC Charger  
Detailed Manual

**AVAILABLE ADD-ONS**  
(Contact us for price)

Fuel cells / buffer-tanks  
Customized firmware  
Custom mounting

Exhaust/Inlet Customization  
Complete integration solutions  
Wireless integration



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