

SPECIFICATION SHEET

ARC

10kWe Peak Output

Micro Turbine Generator

May, 2026



CHOOSE CONFIGURATION: ARC-Voltage-Type

Voltage	Alternator Winding	Operating Range	Optimal Voltage	Max Current
LV (Low)	Standard	15 – 75 VDC	65 VDC	150 A
MV (Medium)	Custom	25 – 120 VDC	100 VDC	100 A
HV (High)	Custom	150 – 750 VDC	650 VDC	15 A

Type	Description	Mass	Dimensions
-S (Standard)	Fully enclosed	23.6 lb (10.7 kg)	20 × 11 × 7 in (510 × 270 × 168 mm)
-A (Aircraft)	No enclosure	17.0 lb (7.7 kg)	19 × 10 × 6 in (483 × 254 × 152 mm)

FEATURES (Common to all Models)

Output:	Filtered and Rectified DC
Fuel Compatibility:	Jet-A, JP-8, Diesel, Kerosene, Biodiesel
Operation:	Full Auto: Fuel Prime / Start / Restart / Cool-down
Firmware:	Fully reprogrammable, auto load compensation
Battery:	Internal start-up battery with self-recharging circuit
Control:	User sets desired voltage output
Delivery:	Ready-to-use out of the box (requires external fuel tank)

PERFORMANCE

Power (Peak):	9.7 kWe
Turbine Rotational Rate (Max):	140,000 RPM
Alternator Rotational Rate (Max):	10,000 RPM
Startup Altitude (Max):	6500 ft (2 km)
Operating Altitude (Max):	33,000 ft (10 km)
Ambient Temperature (Max):	120 °F (50 °C)
Min Ambient Temperature (Min):	14 °F (-10 °C) – requires battery pre-heater
Noise Level (Max):	95 dB



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POWER PLANT

Prime Mover:	Microturbine Jet-Engine
Start-up time:	30 seconds
Fuel Flowrate (Peak power):	0.08 gal/min (0.3 L/min)
Air Flowrate (Peak power):	35 CFM (1,000 L/min)
Exhaust Temperature:	1,200 °F (650 °C)
Maintenance Interval:	50 hours
Total Turbine Lifetime:	1,000 hours

INTERFACES

Fuel Supply / Return:	2 × 6 mm OD hose
Electrical Load:	2 × M6 studs
Data / Control / Charger:	3 x JST 2.54 mm Ports

INCLUDED IN KIT

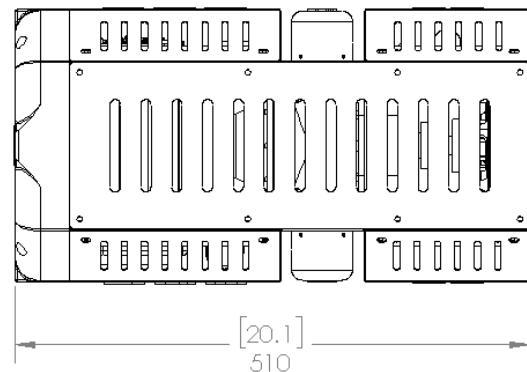
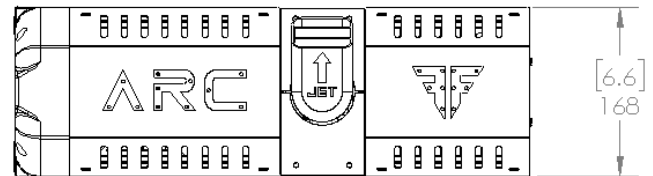
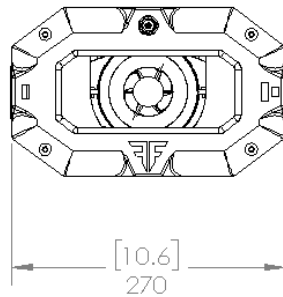
(comes with all models)

Wired Remote Control
Fuel Tubing & Power Leads
Detailed Manual & AC Charger

AVAILABLE OPTIONS

(contact us for price)

Custom Voltage Output
Exhaust/Inlet Customization
Firmware Configuration



ENGINEERING DRAWING (ARC-LV-S)

(Dimensions Format: [in] mm)



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