

## MOBILE G-8 TOWER



Gresco's Mobile G-8 Tower is a self-powered system designed to support temporary operations where drone awareness is required for safety and security. The Mobile G-8 Tower includes an on-board diesel generator, and 30 foot, elevating mast customized for the G-8 antenna array and radio unit. The system is ideal for deployments in remote areas that lack electrical power, as well as other temporary operations where on demand drone monitoring is required. The system offers a detection range in excess of 10 miles depending on terrain & obstacles. The G-8 includes a LTE cellular data modem for wireless access to the server for remote monitoring. The system can be monitored separately or as a part of a larger mesh network. Set up time is less than 30 minutes. With a full tank of fuel, the system will run unattended for 3 days. The platform may also support the installation and operation of other surveillance or communication systems.

### Use Cases

Large Outdoor Events  
Natural Disasters  
Dignitary Protection  
Public Safety Operations  
Airshows & Other Temporary Flight Restrictions  
Wildland Fire Suppression

### **SPECIFICATIONS**

Model	G-8RFS
Ingress Protection Rating	IP65
Lightning Rating	IEC61000-4-5 6KV
Electromagnetic Compatibility	This equipment meets electromagnetic compatibility requirements and also meets below criteria: United States: 47 CFR Part 15, Subpart B:2016 Europe: EN 55032: 2015 EN 55024: 2010+A1:2015 EN 61000-3-2: 2014 EN 61000-3-3: 2013
Power Consumption	Approx. 70W
Input Voltage	Voltage range: 100V AC ~ 240V AC
Operating Temperature	-30°C to +50°C (without solar radiation) '-30°C to +45°C (with solar radiation)
Relative Humidity	5% RH ~ 100% RH

Absolute Humidity 1 g/m<sup>3</sup> ~ 30 g/m<sup>3</sup>

Atmospheric Pressure 70 kPa ~ 106 kPa

### **ENGINE**

Mitsubishi® L3E-W461ML - liquid cooled, diesel engine; Final Tier 4

Polyethylene Fuel Tank:

Fuel Type: Diesel

Fuel Capacity: 33.6 gal. (127.9 L)

Fuel Consumption:

Full Load: 0.47 gph (1.78 Lph)\*

G-8 Only: 0.24 gph (1.78 Lph)\*

Maximum Runtime (G-8 Only): 140 hours\*

60 Hz engine/generator

Cooling system capable of operating at 120°F (49°C) ambient

750 hour service interval\*\*

Wind Rating: 65 mph (105 kph)

*\*Results based on engine manufacturer and field test data after 100-hour engine break-in period and may vary based on factors including age and maintenance of equipment, environmental conditions and fuel density. Consult the Owner's Manual for fuel and maintenance recommendations.*

*\*\*To achieve maximum service interval, replacement of oil filter after 50-hour break-in period is required. Consult Owner's Manual for required oil filter model number.*

### **GENERATOR**

Marathon Electric®

Brushless

6 kW standby output

120/240 VAC – 50/25A

+/-6% capacitor voltage regulation

### **ELECTRICAL AND SYSTEM CONTROLS**

4 Individual circuits with 15A breakers

30A start limit breaker (assures no load condition exists before starting)

Standard individually breakered convenience outlets:

(1) 120 VAC 20 Amp GFCI duplex outlets (NEMA 5-20R type)

(1) 240 VAC 30 Amp Twistlock outlets (NEMA L6-30R type)

440CCA wet cell battery

### **MAST**

Horizontal mast; 30 ft. (9.14 m) maximum extension, 3-section

Tubular steel frame – 3 in. (76.2 mm) square tube with 3/16 in. (4.78 mm) wall

Urethane guides on all sides of mast tubes

Industrial black powder coat finish

Dual winch system located at ergonomic height allowing single person operation

## **ENCLOSURE**

Steel enclosure – 14-gauge

UV & fade resistant, high temperature cured, white polyester powder paint

68 dB(A) at 23 ft. (7 m) – prime power

Stainless steel hinges on doors

Manual holder with operating manual

Equipped with single lifting eye and fork pockets

## **TRAILER**

Removable tongue – 48 in. (1219.20 mm) long

(4) 2000 lb. (907.18 kg) adjustable leveling jacks – 4 point stance

All jacks transport and lock in horizontal position for storage

Side outriggers – 96.25 in. (2.45 m) span

7800 lb. (3538 kg) safety chains with spring loaded safety hooks

2 in. (50.8 mm) ball hitch

Single wall polyethylene fenders

DOT approved tail, side, brake, and directional lights

Recessed rear lights

2200 lb. (997.90 kg) leaf spring axle

ST175/80D13 – 6 ply

40.75 in. (1035.05 mm) axle span

## **WEIGHT & DIMENSIONS**

Dry weight: 1640 lbs. (744 kg)

Operating weight: 1856 lbs. (842 kg)

Mast stowed: 170 x 49 x 68 in. (4.32 x 1.25 x 1.73 m)

## **WARRANTY**

2 Years / 2000 Hours

## **CERTIFICATIONS**

CSA Certified

## **OPTIONS**

Cradlepoint with addressable IP & rugged external antenna for enhanced cellular & WiFi MiMo performance

Point to Point Communications (Internet backhaul) with a range of up to 5 miles

Manned Aircraft Transponder Receiver ADS-B, MODE-C, MODE-S, TIS-B with MLAT