

## **APS150 SOUND ATTENUATED DUAL VOLTAGE/60HZ**

### **FEATURES:**

### **EMISSIONS:**

- EPA Tier 3 Certified at 60Hz applications

### **PERKINS 1106D-E66TA ENGINE:**

- Reliable, rugged, durable design
- Four-stroke-cycle diesel engine
- Dependable

### **MARATHON MARINER 431PSL GENERATOR:**

- Designed to match performance and output characteristics of diesel engines
- Permanent magnet excitation

### **ENCLOSURE:**

- Made with 12-gauge steel
- Single point lifting eye
- Sound attenuated
- Convenient hand holds and steps for safe operation
- Two coat polyester powder-coated finish

### **ENVIRONMENTALLY FRIENDLY DESIGN:**

- Sound attenuated for low noise operation
- OSHA compliant safe design
- Spill containment for coolant and oil
- UL142 certified dual wall fuel tank<sup>®</sup>

### **MULTI-VOLTAGE DISTRIBUTION PANEL:**

- Dual voltage
- Load door safety switch
- Rust-free hinges on all doors
- Adequate space for line and plug connection without interference
- Remote start and stop contacts

**Complete systems designed and tested at Altorfer Power Systems**

**Standard Features**

<b>Air Inlet System</b>	Air cleaner, dual element Turbocharger	<b>Fuel System</b>	Primary fuel filter/water separator UL142 dual wall fuel tank 300 gal (1135 L)
<b>Charging System</b>	Battery charger Charging alternator	<b>Generator</b>	Brushless, permanent magnet Coastal corrosion protection Shock mounted DVR2000E voltage regulator UL approved Three-phase 480/277 and 240/139 voltage Class H insulation
<b>Control Panel</b>	Generator controls and monitoring Fuel tank monitoring Engine controls and monitoring Digital displays	<b>Mounting System</b>	Generator soft mounted to base Base contains integral fuel tank Structural steel design Oil and coolant spill containment
<b>Cooling System</b>	Fan and belt guards Engine mounted radiator Air to air after cooling	<b>Starting System</b>	Electric starting motor Battery set with disconnect switch Jacket water heater with thermostat, shut-off valves
<b>Distribution Panel</b>	Lockable doors Load door safety switch, (trips breaker upon door opening) Individual bus bar connections Circuit breaker with 12 volt shunt trip Remote start/stop contacts Shore power connections	<b>Trailer</b>	Full frame support Independent tandem axle <sup>®</sup> trailer frame with tongue Electric actuated hydraulic brakes with rechargeable battery backup break-away system Over center mechanical parking brake Full length fenders Non-skid surface on steps Heavy duty safety chains and grab hooks Reinforced 10,000 lb (4540 kg) top wind drop jack
<b>Enclosure</b>	Sound attenuated 12-gauge steel Lockable doors Separate vented battery compartment Single point lifting Exterior oil and water drains with exterior valves Hidden exterior fuel drain Hand holds and steps Powder coated finish		

## SPECIFICATIONS

### MARATHON MARINER GENERATOR

Frame size.....431  
 Type.....Permanent magnet brushless  
 Construction.....Single bearing, close coupled  
 Three-phase.....12 lead reconnectable  
 Insulation...Class H with coastal insulation protection  
 IP rating.....22  
 Alignment.....Pilot shaft  
 Voltage regulator.3-phase sensing with volts-per-hertz  
 Voltage regulation.....+/- ½% steady state/+/- ½%  
 no load to full load

### PERKINS 1106D-E66TA ENGINE

4 stroke-cycle water-cooled diesel  
 Bore – in (mm).....4.13 (105)  
 Stroke – in (mm).....5 (127)  
 Displacement – cu in (L).....403 (6.6)  
 Compression ratio.....16.2:1  
 Aspiration.....Turbocharged AA charge cooled  
 Engine control.....A4E2

### DSE 5310 CONTROLS

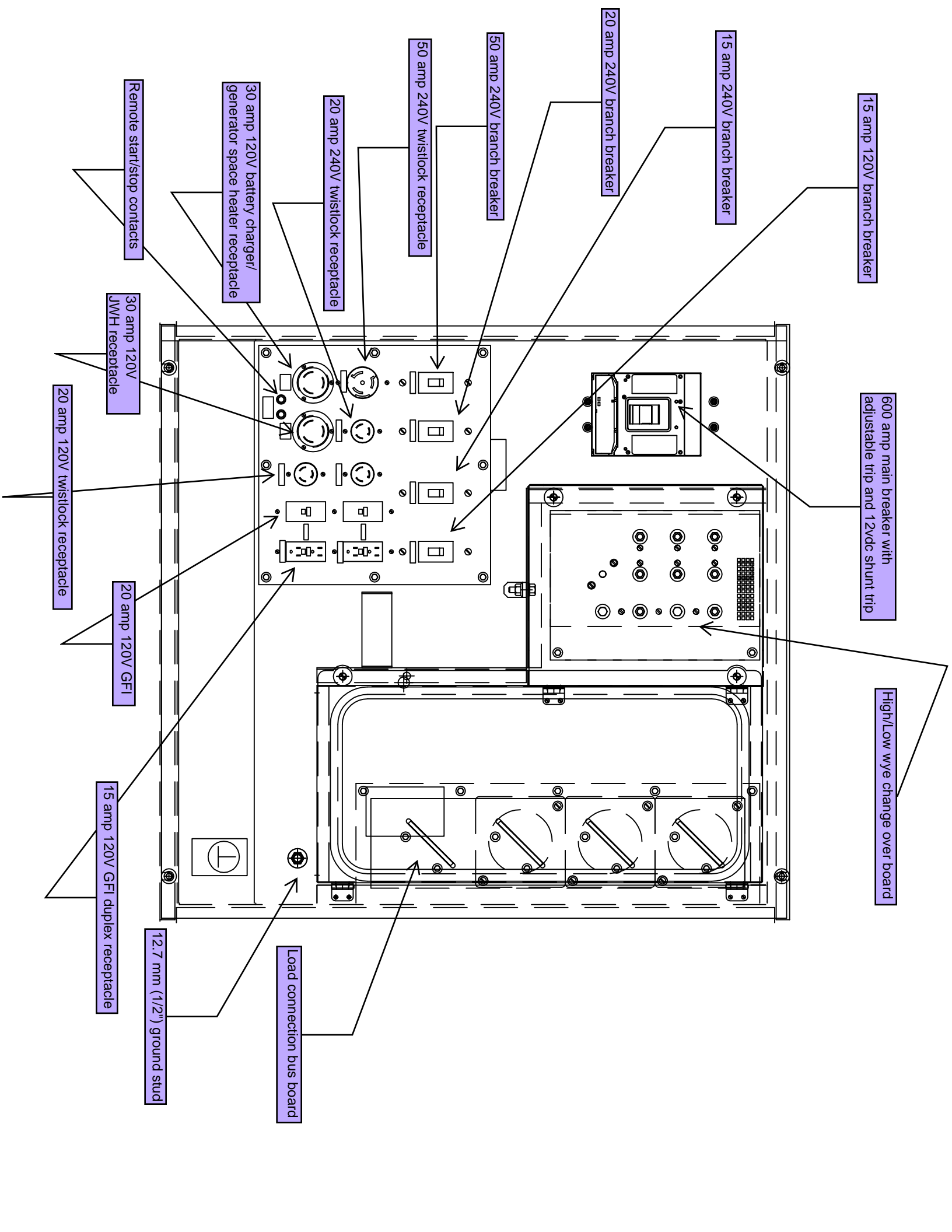
12 Volt DC Control  
 NEMA 1  
 Lockable hinged door  
 Enclosure mounted  
 Single location customer connection point  
 Alarm module with alarm horn  
 Electric fuel level gauge



### TECHNICAL DATA

<b>Power Rating</b> 60Hz	ekW/kVA	Standby 150/187.5
<b>Engine Information</b> Model		1106D- E66TA
<b>Shipping Weight (dry)</b> Unit with trailer	lb (kg)	10,850(4921)
<b>Max. Fuel Cap. Weight</b> Unit with trailer	lb (kg)	13,100 (5942)
<b>Ambient Capacity</b> <b>(Estimated)</b>	Deg F Deg C	109 43

Engine Lubricating Oil Capacity	Gal L	4 15
Engine Coolant Capacity with Radiator	Gal L	4 15
Fuel Tank Capacity	Gal/L	300/1136
Fuel Consumption @ 100% load	Gal(L)/ hr	11.3(42.7)
Fuel Consumption @ 75% load	Gal(L)/ hr	9.4(35.6)
Running time at 75% load	Hrs	32
Sound Level		
Standby	dB(A)	74.8
No load @ 7m (23 ft)	dB(A)	70.1



15 amp 120V branch breaker

15 amp 240V branch breaker

20 amp 240V branch breaker

50 amp 240V branch breaker

50 amp 240V twistlock receptacle

20 amp 240V twistlock receptacle

30 amp 120V battery charger/  
generator space heater receptacle

Remote start/stop contacts

600 amp main breaker with  
adjustable trip and 12Vdc shunt trip

High/Low wye change over board

30 amp 120V  
JWH receptacle

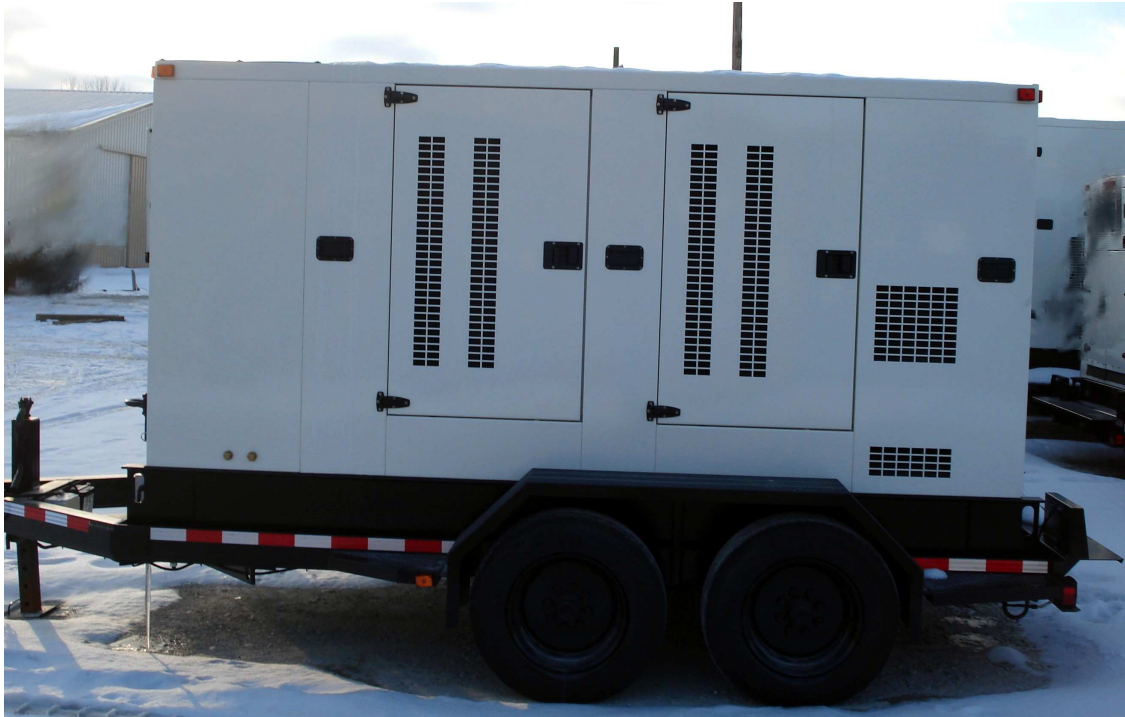
20 amp 120V twistlock receptacle

20 amp 120V GFI

15 amp 120V GFI duplex receptacle

12.7 mm (1/2") ground stud

Load connection bus board



**Package Dimensions (with trailer)**

Length	213 in	5385 mm
Width	84 in	2134 mm
Height	109 in	2769 mm
Weight (full fuel)	13,100 lbs	5942 kg