

# Advanced *"TOW-POWER 35"* Portable Generator Trailer Specifications

## **3,500lb GVWR Single Axle Portable Generator Trailer Specification**

### **General:**

Trailer shall be rated no less than 3,500# GVWR, comprised of one (1) axle. Trailer shall incorporate a minimum 100-gallon capacity single-wall fuel tank. Trailer deck shall be dimensionally designed to accommodate installation of the specified equipment. Top deck material shall be minimum 7-gauge diamond plate steel.

### **Frame:**

Shall be minimum 4" structural channel perimeter and 3" structural channel tongue support. Frame shall be cross-braced on 24" centers with 1-1/2" x 2-1/2" x 1/4" wall thickness rectangular tubing.

### **Axle:**

Shall be a Dexter 3,500# capacity. Axle hub shall be a 5 bolt pattern on 4-1/2" bolt circles. Axle shall be EZ Lube type.

### **Tires:**

Shall be 15" Radial, ST205/75 R15 Load Range C, mounted on white wheel rims.

### **Tongue:**

Shall be 2" adjustable ball coupler, rated 5000# capacity.

### **Fenders:**

Shall be minimum 14-gauge steel tread plate type with backs. Fenders shall be properly supported and permanently welded to the trailer frame.

### **Front Jack:**

Shall be rated 2,000# capacity with a 10" minimum lift. Jack shall be swivel, pipe mount type with sand shoe.

### **Rear Stabilizers:**

Shall be rated 650# capacity minimum each. There shall be a minimum of two (2) stabilizers mounted one at each rear corner of the trailer frame. Stabilizers shall be capable of folding out of the way for transport and storage when not in use.

### **Safety Cable:**

There shall be two (2) 7/16" X 36"L galvanized safety cables attached to the tongue support channel. Safety cables shall be self tensioning types which permit free movement while keeping the cable from dragging on the ground during transport. Each cable shall be rated 7,000 # capacity and be terminated with a 7/16" S-Hook for attachment to the towing vehicle.

### **Brakes:**

Axle brakes shall be electrically actuated upon signal from the towing vehicle. Braking system shall incorporate a safety battery with breakaway switch and safety battery charger.

### **Lighting:**

Shall be meet ICC/USDOT requirements for a trailer of this size and capacity.

**Trailer Electrical:**

All wiring along underside of trailer shall be encased in EMT conduit to limit the possibility of damage during movement. Where required to exit the conduit for termination wiring shall be encased in loom for protection. Lighting connector shall be a 6-way round style female.

**Finish Paint:**

Complete Trailer including top deck shall be primed and painted using high quality industrial grade rust and corrosion preventative coating.

**Fuel Tank:**

The fuel storage tank shall be manufactured of minimum 12 gauge mild steel. Tank shall incorporate fittings for 2" fuel fill, engine supply and return, mechanical fuel level gauge, 1-1/2" tank vent, low fuel level alarm switch, high fuel level alarm switch, and 1/2" tank drain. The fuel fill cap shall be gasketed for a positive leak-proof seal. The cap shall also operate to relieve internal tank pressure or vacuum. The vent shall extend a minimum of 24" above the top of the tank. The tank shall contain internal baffles to limit the action of fuel movement while traveling. Upon completion of assembly the fuel tank shall be pressurized between 3-5 PSIG. All seams and welds that are subject to pressure shall be inspected for leakage with a soap solution. Any leakage shall be documented and corrected prior to final painting and installation of the generator set. Documentation of the leakage/integrity test shall be maintained within the manufacturer's files. Secondary containment or double walled fuel tanks shall be offered as an option and provided with a means of monitoring the secondary containment for presence of liquid.

**Generator set supports:**

Shall be 1" thick steel plates tapped for equipment mounting. Mounting plates are to be solidly welded to the top deck of the trailer and located on transverse support beams.

Trailer manufacturer shall be registered with USDOT with documented manufacturer's number. Trailer manufacturer shall be responsible to integrate the generator set to the trailer and fuel tank. Manufacturer shall provide a completed Certificate of Origin with delivery of the trailer package. The trailer shall be as built by Advanced Manufacturing & Power Systems, Inc., 1965 Bennett Drive, DeLand, Florida.