

ADVANCED GENERATOR ENCLOSURE [WRSPSA00]
(Weather Resistant, Steel, Painted, Non-Sound Attenuation):

GENERATOR ENCLOSURE:

A weather resistant type enclosure shall be provided to house the engine/generator and accessories. The enclosure is to be in complete compliance with the National Electrical Code (NEC), and the National Fire Protection Association (NFPA) with regard to clearances around electrical equipment specified herein. The enclosure shall conform to the following construction and design criteria as set forth. Enclosure shall be manufactured by Advanced Manufacturing & Power Systems, Inc., DeLand, FL. (A.M.P.S.) Ph. (386) 822-5565. Substitutions must be submitted in writing to the engineer and be accepted as an approved equal prior to bid date.

- Rigidity wind test equal to 80 MPH
- Roof load equal to 40 lbs. per sq. ft.
- Floor load (where applicable) equal to 150 lbs. per sq. ft.
- Rain test equal to 4" per hour

Enclosure shall consist of a roof, two (2) side walls, two (2) end walls, and be manufactured of formed 14 gauge steel components. The enclosure is to be provided with a tiedown frame for securely attaching the entire structure to the base floor/fuel tank as specified within.

All framing shall be incorporated in the panels by forming an open back box structure. Skin material shall be a minimum thickness of 14 gauge mild steel. Enclosure shall be primed and painted using a high grade anti-corrosive industrial paint primer and exterior top coat. Skin panels shall be integral to the wall structure and not separate pieces riveted on to framing members. Wall panels shall be no wider than 24" each and shall be removable without the use of special tools. Wall and roof panels shall be designed so that field replacement can be accomplished without disassembly of the entire structure if damage should occur.

A minimum of sixteen colors shall be available for enclosure exterior. Standard enclosure color is WHITE unless otherwise specified.

Roof assembly shall be sloped to aid in rain runoff.

Four-point lifting provisions shall be provided at or near the enclosure base, with capacity suitable for rigging the entire assembly. Roof lifting provisions shall be provided for drop-over enclosures.

A minimum of four (4) single personnel access doors shall be provided on non walk-in type enclosures or a minimum of two (2) doors shall be provided on walk-in type enclosures.

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Walk-in enclosures are defined as enclosures having interior working clearance of not less than 24" from generator mounting rails to the interior side walls and a minimum of 36" interior clearance from the end of the generator to the interior of the rear wall.

One door shall be located in front of the generator main circuit breaker, as specified, to meet NEC code clearance requirements. Circuit breaker access door shall provide free open access to the breaker as required for proper operation and maintenance. Doors shall be manufactured of the same material as enclosure. Door hinges shall be full length stainless steel piano type and attached with stainless steel hardware. Door handles are to be of a corrosion resistant material and shall provide for a lockable, secure entry point into the enclosure.

Air handling shall be as follows: Air will enter the enclosure through an all aluminum fixed blade louver(s) as required for proper airflow to generator set. Louver(s) shall be removable and attached into a galvanized steel frame to form a rigid, water resistant assembly. Radiator discharge will be through a removable aluminum gravity operated backdraft damper. The system shall not exceed 0.5" w.g. total external static pressure over the entire system to ensure adequate airflow for cooling and combustion. Intake shall be screened to prevent the entrance of rodents and other vermin.

Enclosure manufacturer shall provide all necessary hardware to internally or externally mount the exhaust silencer(s) specified herein. Silencer mounting hardware shall maintain the weatherproof integrity of the enclosure system. If the silencer is mounted internally it will discharge upward into the radiator discharge plenum where possible, otherwise an aluminum rain collar and rain dress shield shall be provided by the enclosure manufacturer. Rain Collar and Dress Shield shall be 14 gauge aluminum steel and designed as a circular fabricated part that does not require hole indexing by the installing contractor during site installation.