



Model TGM35 & 45



Standard Generator Set Features

- General Motors Vortec 4300 Gaseous Engine
- Single Bearing Direct Coupled Alternator With Class 'H' insulation, Sized for 150° Temperature Rise.
- Deluxe Analog Control Panel with Auto Start/ Stop and Safety shutdowns for Oil Pressure and Engine Temp.
- Marine Grade Aluminum Weather Protective Enclosure with White Powder Coat Paint and Stainless Steel Hardware. Oil and Coolant Drain lines with Ball Valves, Hinged Removable Keyed Alike Doors. Panel Viewed through Lexon Cover.
- Formed Steel Sub-base with Lifting Eyes, Vibration mounts and Battery Tray.
- Solid State 5-amp Battery Charger (120-volt)
- Residential Quality Exhaust Silencer mounted.
- Coolant Heater 600 Watt.
- UL Rated Fuel Line connected to Bulkhead fitting on enclosure.
- Residential Exhaust Silencer with Stainless Flex.
- 125° Ambient Clearance Radiator with Jacket Water Heater.
- UL Approved Mainline Circuit Breaker mounted inside enclosure in NEMA 1 box w/ ground stud
- Dry Type Air Cleaner.
- 12-Volt Starter, Engine Mounted Battery Charging Alternator and Battery Cables.
- Safety Ground Strap.
- Full Load Factory Run Test With Safety Shutdown.
- One Complete Operation and Maintenance Manual.

TGM 35 & 45 Generator Set Ratings

Voltage	PH	Hz	Standby Output kW	Prime Output kW	Standby Max Amps	# of Wires
120/240	1	60	35 / 45	31 / 41	146 / 187	4
120/240	1	60	35 / 45	31 / 41	146 / 187	12
120/208	3	60	35 / 45	31 / 41	122 / 156	12
120/240	3	60	35 / 45	31 / 41	106 / 135	12
277/480	3	60	35 / 45	31 / 41	53 / 67	12

All Single-Phase Ratings at 1.0 Power Factor
All Three-Phase Ratings at .8 Power Factor

Optional Equipment

Generator Drip Covers | PMG Generators
Oversized Generator Ends for Motor Starting
Automatic Transfer Switches
Sound Attenuation | Enclosure Color
Aluminum sub-base

RATINGS: Stand-by ratings are continuous for the duration of any power outage. No overload capacity is specified at this rating. Prime ratings are continuous per BS 5514, DIN 6271, ISO-3046 and IEC 34-1 with 10% overload capacity one hour in twelve hours. All single phase units are rated at 1.0 power factor. All 3-phase units are rated at 0.8 power factor. Specification and design are subject to change without notice and without any obligation or liability whatsoever.

TGM35-45

Engine Specifications

Manufacture: General Motors
Engine Model: 4300 Vortec
Type: 90 Degree V-6
Displacement, 263 cu. In. (4.3L)
Bore and stroke in.: 4.00 x 3.48
(101.6 x 88.39 mm)
Max. Power at rated rpm: 75 hp (100kW):
Cylinder Block Material: Cast Iron
Aspiration: Natural
Engine Governing: \pm 0.5% -Electronic
Oil pan capacity with filter: 5 qt. (4.7L):
Oil filter, qty, type: 1 x spin-on cartridge type

Fuel Supply Inlet: 1"
Fuel Supply Pressure: 7-11 (In/H²O)
Fuel System Type:
Liquefied Petroleum Gas (Vapor) or Natural Gas, Carburetor Induction
Governor: Woodward Fuel Mixer
Air cleaner type: Dry Type
Combustion air, cfm (m³/min.): 3240 (57)
Cooling air, cfm (m³/min.): 3757 (66)
Max ambient temp. °F (°C): 122 F
Coolant capacity, system: 4.2 gal

Battery charging alternator: 12v (51a)
Starter motor: 12v
Recommended battery for 0°F: 780cca
Exhaust flow at rated kW: 290 (82)
Exhaust temp at rated kW: 1220 F (660)
Max allowable back pressure, in. Hg (kPa): 30 (7.5)
Recommended exhaust outlet size, in. (mm): 3" (76)

Fuel Consumption Cubic Feet per Min NG (LPG)

At Standby Rating 25%: 209 (79) 50%: 292 (113)
75%: 391 (158) 100%: 467 (200)

Alternator Specifications

Newage Electric Alternator: Brushless, 4-Pole Rotating Field,
Self-ventilating drip-proof construction.
Voltage Regulator: Solid State: Volts/Hertz
Insulation: Class 'H' to NEMA MG-1-1.66
Rated Temperature Rise: 150 C°, Standby
Bearing Type / Number: Sealed / Single
Coupling: Direct Coupled, Flexible Disc
Voltage regulation: + / - 1%, Solid State
Load acceptance: One Step, 100% per NFPA 110

Features:
Superior voltage waveform achieved by a two-thirds pitch and skewed rotor.
Vacuum-impregnated windings with fungus-resistant epoxy for dependability and long-life.
Compliance with NEMA, IEEE and ANSI standards for temp rise.
Sustained short-circuit capability enabling down-line circuit breakers to trip without collapsing the generator field.
No load to full-load regulation of +/- 2%.

Panel Specifications and Functions

Deluxe Tradewinds Analog Control Panel:

Simple and Basic Control Functions:
3 1/2" Mechanical Voltmeter, Ammeter, and Hertz
Meters. Water Temperature, Oil Pressure, and DC Voltmeters. Circuit Breakers for A/c and D/c panel
Operations. Slant Front Design for easy viewing.
Standard with Mechanical Start/Stop Controls with
With Push to Start Push Button Control. Easy Plug

- Auto Start Stop Control with Standard 3 Start Attempts
- Energize to Stop Functions
- Fail to Start (led)
- Adjustable Start Stop Controls
- Low oil pressure warning & shutdown (led)
- High engine temperature warning & shutdown (led)
- Aluminum Control Panel Box
- Overspeed and Underspeed Frequency Protection

Mounting and Dimensional Specifications

Enclosed Style Unit

Inches / (mm)
Length 91" (2314)
Width 40" (1016)
Height: 52" (1321)
Shipping Weight: 1,760 lbs. (3,880 kgs.)

Sound Data

73 to 76 dB(A) at 7 meters (21 feet)

Authorized Dealer:

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Specifications are subject to change without notice

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