GAS TURBINE GENERATOR SET

2,400kW/Dual Fuel Standby/480–13,800V

Quiet, lightweight powerhouse that can run on natural gas or diesel



GTS-2400 Generator System

Electric output: Voltages: Starting time: Load application capacity: Frequency deviation:

Fuel type: Fuel consumption (diesel): Enclosure ambient conditions: 2,400kW 480V or 13.8kV <40 seconds 0.8PF Within ± 4.5% with 100% block load on/off (transient) Within ± 0.3% (steady state) Natural gas, diesel 329gal/hr 40°C (104°F) at 150m (500ft) elevation

Gas Turbine

Turbine model: Type: **Turbine speed: Output speed: Dry weight:** Turbine intake required at air flow: **Turbine exhaust gas flow:** Turbine exhaust gas flow (dry): **Turbine exhaust gas temperature:** NOx (15%O₂) in ppm when diesel: NOx in g/kW-hour when diesel: NOx (15%O₂) in ppm when natural gas: NOx in g/kW-hour when natural gas: Lube oil tank capacity: Lube oil cooler head radiation: Lube oil consumption: **Fuel pressure:**

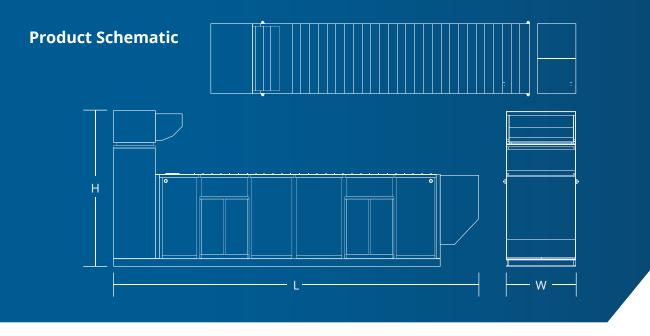
Kawasaki M1T-03 Heavy duty, simple open cycle, single shaft 22,000rpm 1,800rpm (at 60Hz) 5.7 tons (11,400 pounds) 880m³/min (31,077FCM) at 40°C (104°F) 2,500m³/min at 610°C (1,130°F) 43,200m³/hr at 610°C (1,130°F) 610°C (1,130°F) 144ppm (at 100% load) 3.59g/kW-hr 120ppm (at 100% load) 3.00g/kW-hr 42gal 50kW 0.04 gal/hr 189PSIG

Alternator

Model: Phase: Type:

Hz: Output: Voltage regulation: Excitation system: Standard voltage: Leroy-Somer: LS841-M70 (480V); Kato: 4P6.6-2975 (13.8kV) 3 3-phase, open screen protected, brushless, self ventilated, synchronous 60Hz 3,000kVA D700 PMG 480V or 13.8kV





Additional Specifications

Package dimensions (outdoor): Weight: Noise: Lube Oil System	1,605cm (632in) length 307cm (121in) width 681cm (268in) height 110,000 lbs (480V and 13.8kV) 85dBA @ 7m
Tank capacity: Filtration: Lube oil cooler heat radiation: Fuel System	42gal Το 10μ 50kW

Fu

Fuel options: Filtration: Main fuel pump pressure: Starting fuel pump pressure: Liquid fuel supply temperature: Liquid fuel tank volume:

Single (gas or liquid) or dual (gas and liquid) To 20µ at 43.2L/min 3.3-3.5MPaG (478-508PSIG) 1.7MPaG (247PSIG) -10°C to 40°C Customizable

Certifications and Standards

The generator package is designed and manufactured in facilities certified to ISO 2015:9001 and ISO 2015:14001, and is tested to ISO 8528-5:2002 for transient response from steady state. All packages are prototype and factory tested. Product design is verified for quality and performance integrity with vetted internal standards. The generator package accepts rated load in one step per NFPA 110 (2022). The generator package follows NEMA, IEEE, and ANSI standard compliance for temperature rise, motor starting, and enclosure design.

www.stewartandstevenson.com/gtspower | TurbineSales@kirbycorp.com

©2023 Stewart & Stevenson. The information and/or recommendations in this publication, including text, images and links, which may change at any time, is provided "AS IS" by Stewart & Stevenson. Nothing contained herein is to be construed as a representation or warranty of any kind, express or implied, including but not limited to any warranty of merchantability or fitness for a particular purpose, noninfringement of any intellectual property rights, and the buyer assumes all risk and liability whatsoever resulting from the use of such products. Stewart & Stevenson is a registered trademark of Stewart & Stevenson LLC.