PUWERFACTOR

Energy Solutions for a brighter future... <u>Titan 130 Turbine Generator Technical Data</u>



General Specifications

- Titan 130 Gas Turbines
- Industrial, Single-Shaft
- Axial Compressor
 - 14 Stages
 - Variable Geometry
 - Vertically Split Case
 - Pressure Ratio: 17.1:1
- Annular Combustion Chamber
- Conventional or Lean-Premixed, Dry, Low Emission (SoLoN0x1)
- 21 Fuel Injectors (Conventional)
- 14 Fuel Injectors (SoLoNOx)
- Proximity Probe Vibration

Transducers

- Turbine
 - 3 Stage, Axial Flow
 - Speed: 11,220
- Main Reduction Drive
- Epicyclic
 - 1500 or 1800 rpm (50 or 60 Hz)
 - Acceleration Vibration
- Transducer Generator
- Continuous Duty Rating
- Salient Pole, 3 Phase, 6 Wire, Wye Connected, Synchronous with Brushless
- Exciter Open Drip-Proof Construction
 - Sleeve Bearings
- Velocity Vibration Transducers
- Permanent Magnet Generator
- NEMA Class F Insulation with F
 Rise

Package

- Steel Base Frame with Drip Pans
- Direct-Drive AC Start System
- Natural Gas Fuel System
 - *"Turbotronie* 4" Control System • "ControlLogix" Controller • Standard Display with Discrete Event Log, Strip Chart, Historical Trend, Maintenance Screen
 - Gas Turbine and Generator Control
 - Vibration and
 - Temperature
 - Monitoring
 - CGCM (Combination
 - Generator Control Module) with Load Share,
 - Auto Synchronization,
 - Voltage Control, Reactive
 - Power Control, kW Control
- Integrated Lube Oil System
- Turbine-Driven Lube Pump
 - Pre/Post Lube Pump
 - Backup Lube Pump
 - Air/Oil Cooler
 - Integral Lube Oil Tank
 - Lube Oil Tank Heater
 - Oil Mist Eliminator
 - Simplex Lube Oil Filter
- Documentation
 - Drawings
 - Quality Control Data Book
 - Inspection and Test Plan
 - Test Reports
 - Operation and
 - Maintenance Manuals
- Factory Testing of Turbine and Package



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Optional Equipment

- Generator Options: • Standard Voltages: 11,000 V (50 Hz); 12,470, 13,200 or
- 13,800 V (60 Hz) Fuel Systems
 - Liquid
 - Dual (Gas/Liquid)
 - Alternate Fuels (such as
 - naphtha, propane, low Btu gas)
- Lube Oil System
 - Water/Oil Lube Oil Cooler
 - Duplex Lube Oil Filters
 - Vent Flame Trap
 - Control System • Auxiliary and Remote
 - Display/Control
 - Terminal
 - Heat Recovery Application
 - Interface • Serial Link Supervisory
 - Interface
 - Turbine Performance Map
 - Printer/Logger
 - Field Programming
 - Terminal
 - Unfired Waste Heat Recovery System Control
 - (Stand-Alone Panel)
 - Multi-Unit Applications: Load Shed Control (Stand-
 - Alone Panel),
 - Import/Export, kW/KVAR Control (Stand-Alone Panel)
- Accessory Equipment

 120-VDC Battery/Charger System
 Turbine Cleaning System: On-Crank and On-Line
- Weatherproof Acoustic Enclosure
 - Ancillary Equipment • Inlet and Exhaust Silencers • Self-Cleaning or Prefilter/Barrier Air Inlet Filter
 - Inlet Evaporative Cooler
 - Inlet Chiller Coils

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