

# SPECIFICATIONS



## 30 MW 2016 New Solar Titan 250 (30002S CS/MD) Natural Gas Turbine

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## Description

This industrial gas turbine is a high-performance prime mover engineered for mechanical drive, power generation, and combined heat and power (CHP) applications. Featuring a two-shaft design with separate gas generator and power turbine sections, this unit delivers exceptional fuel efficiency and operational flexibility across diverse industrial settings. With no generator included, this turbine package offers maximum configuration versatility—allowing operators to couple their preferred generating end, gearbox, or mechanical drive train to meet specific project requirements. With a 2016 manufacture date and new condition status, this equipment provides immediate deployment readiness with full operational lifespan and comprehensive manufacturer support ahead.

Rated at 30,000 kW shaft power output (ISO conditions), the turbine operates at variable speed up to 3,600 RPM on the power turbine shaft, making it ideal for direct-drive generator coupling or gearbox integration for mechanical applications. Thermal efficiency reaches approximately 36-38% in simple cycle mode, with exhaust gas temperatures of 950-1,000°F enabling substantial heat recovery potential. Exhaust mass flow exceeds 200,000 lb/hr, supporting cogeneration or combined cycle configurations yielding total system efficiencies above 80%.

### KEY FEATURES:

- Dry low emissions (DLE) combustion system achieving <25 ppm Nox
- No generator included — open power turbine shaft for custom coupling
- Modular construction for rapid installation and simplified maintenance
- Heat recovery steam generator (HRSG) compatibility for cogeneration

### ADVANTAGES

- Zero-hour equipment with full manufacturer warranty coverage
- Lower maintenance costs versus reciprocating engines at this power class
- Compact industrial footprint: 30 MW from a single skid-mounted package

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|--|--------------------------|
| <b>Manufacturer</b>                          | Solar Turbines           |
| <b>Model</b>                                 | Titan 250 (30002S CS/MD) |
| <b>Year</b>                                  | 2016                     |
| <b>Condition</b>                             | New                      |
| <b>Location</b>                              | Asia                     |
| <b>Qty Available</b>                         | 1 Unit                   |
| <b>Category</b>                              | Natural Gas Turbines     |
| <b>Subcategory</b>                           | 10 – 99 MW               |
| <b>Stock Number</b>                          | USP010398                |
| <b>Wattage</b>                               | 30 MW                    |
| <b>Hours</b>                                 | Zero                     |
| <b>Frequency</b>                             | 50/60 Hz                 |
| <b>Fuel Type</b>                             | Natural Gas              |
| <b>Voltage</b>                               | No Alternator            |
| <b>Balance of Plant Available?<br/>(BOP)</b> | -                        |

## Quick Access:

Products: USP&E | Owners Engineering, EPC and O&M Inventory by Category  
Subcategories: Natural Gas Turbines - 10 - 99 MW for sale at USP&E | Owners Engineering, EPC and O&M

Solutions: Battery Energy Storage Solutions  
Services: Power Plant EPC | Power Plant Engineering

# Asset Photos

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