



# RELIABLE POWER, ONLINE FAST MOBILE POWER UNITS

**Solar<sup>®</sup> Turbines**  
*A Caterpillar Company*

# THE POWER YOU NEED — WHENEVER, WHEREVER

Imagine tapping into 5 MW or 15 MW building blocks of reliable electric power — within days or weeks, instead of months or years. You can do it with mix-and-match, multiple mobile power units from Solar Turbines. Our complete, field-proven packages deliver fast-online, cost-effective power for continuous duty, peaking, standby and seasonal or cyclical loads.

These versatile pre-engineered turbine power plants, created through our dedicated focus on turbomachinery solutions, suit a host of applications, including:

- Distributed generation, peaking, voltage support, transmission congestion relief, price hedging and emergency backup
- Prime power for remote operations such as oil and gas, and mining operations
- Temporary power for remote sites such as military and government installations
- Emergency power supply for disaster areas requiring local power
- Rental fleets and utility equipment pools

## RELIABLE

Mobile power units deploy our robust, thoroughly proven, single-shaft industrial gas turbines in modular packages that are easy to transport and connect. Install just one unit or multiple units for large-megawatt loads. You benefit from the experience of our huge installed base of gas turbine-driven generator sets.

MORE THAN

8,000

AT WORK WORLDWIDE

GENERATOR  
SETS



## FAST

Mobile power units give you quick delivery and installation. They're easily truck-transported via standard roadways — and can ship by rail, sea or air.

- Modular design with plug-and-play mechanical/electrical interconnects
- Easy erection and commissioning
- Simple access for customer connections
- Fast startup — online within minutes of cold start
- Easy environmental permitting

# A CULTURE OF CUSTOMER CARE

## FLEXIBLE

You can easily deploy and redeploy mobile power units to suit needs for today and the future. They fit a wide range of physical spaces and operating and ambient conditions.

- 50 Hz and 60 Hz configurations
- Gaseous or liquid fuels
- Compact footprint and low profile
- Easy to transport and relocate
- Black-start capability
- Range of control system options, including SCADA integration

Financing is flexible, too, with many rental, lease and purchase programs.

## SUSTAINABLE

Clean, fuel-efficient mobile power units help cut your energy costs and reduce your carbon footprint. They're at home under any air-quality program and in almost any community setting.

- Dual-fuel-capable — natural gas or clean No. 2 diesel
- Available with SoLoNO<sub>x</sub>™ dry, low-NO<sub>x</sub> combustion system
- Sound-attenuated packages for noise-sensitive locations

## COMPLETE

Each mobile power unit includes a gas turbine, generator, auxiliary trailer and climate-controlled electrical equipment room, plus available ancillary equipment:

- Utility-grade switchgear and protective relay module
- Low-voltage motor control center for the power plant
- Low-voltage, step-down transformer for mobile power unit auxiliary loads
- Turbine and switchgear battery and charger
- Neutral grounding resistor
- Centrifuge/liquid fuel boost skid
- Gas fuel filter/heater skid
- KVAR control for excellent reactive power control

## SUPPORTED

Like all products from Solar Turbines, your mobile power units come with renowned worldwide customer support to ensure optimum performance throughout the life of your equipment. It's delivered through the industry's largest, most experienced and highest-skilled turbomachinery service team, some 3,000 strong. We're there with you from product selection to commissioning, operations and maintenance.

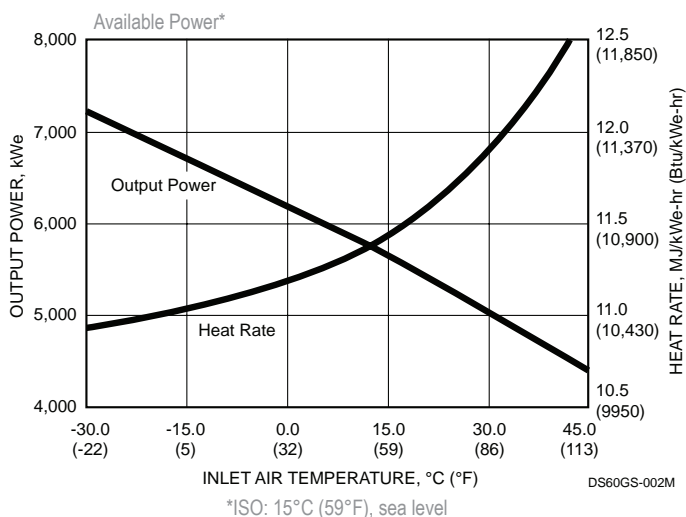
- Expert installation service
- Wide range of post-installation support programs
- InSight System™ remote monitoring and diagnostics
- On-site replacement engines available

# TAURUS™ 60 MOBILE POWER UNIT

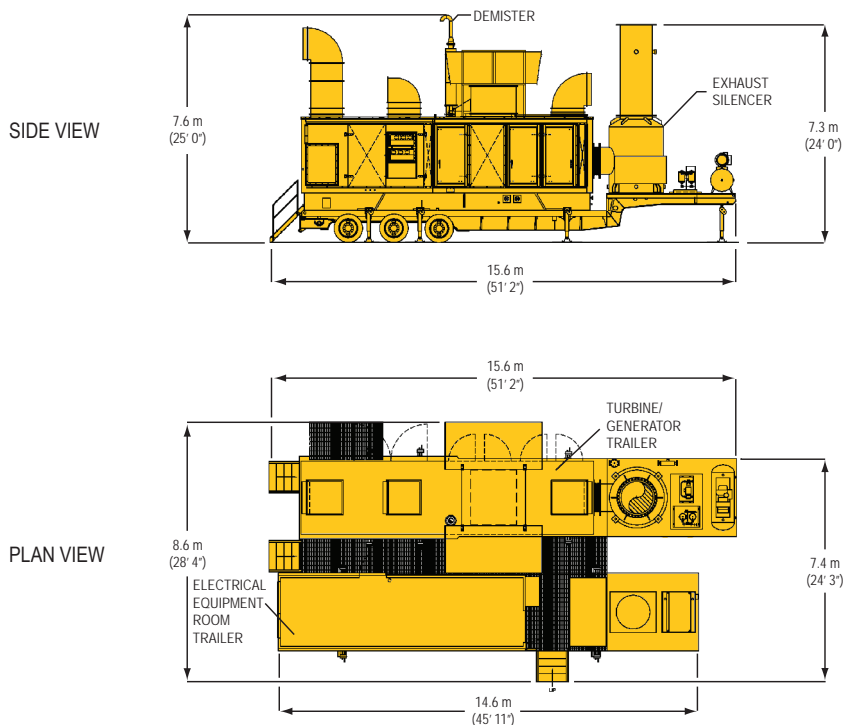
**POWER OUTPUT:** 5,670 kW<sub>e</sub>

**HEAT RATE:** 11,430 kJ/kW<sub>e</sub>-hr (10,830 Btu/kW<sub>e</sub>-hr)

**TOTAL WEIGHT:** 83,990 kg (185,000 lb)



## PACKAGE LAYOUT AND DIMENSIONS

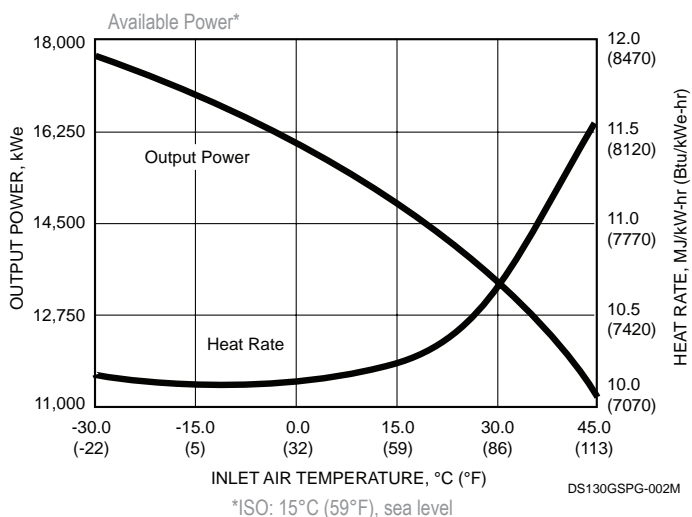


# TITAN™ 130 MOBILE POWER UNIT

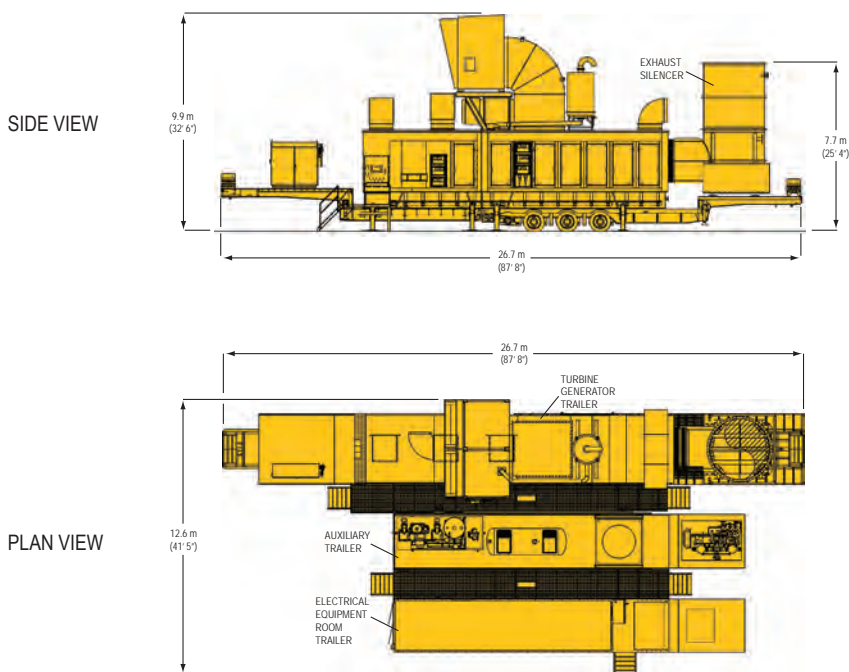
**POWER OUTPUT:** 15,000 kWe

**HEAT RATE:** 10,230 kJ/kWe-hr (9,695 Btu/kWe-hr)

**TOTAL WEIGHT:** 186,140 kg (410,000 lb)



## PACKAGE LAYOUT AND DIMENSIONS





# PROVEN PERFORMANCE WORLDWIDE

Discover how Solar® Mobile Power Units deliver fast installation and flexible, reliable power solutions to industries and utilities around the world.



## STARTUP POWER FOR PETROLEUM PROCESSING

A major international oil company ordered four Titan 130 Mobile Power Units to supply initial power for an accommodations camp in a major oil field in southern Iraq. The field has proven reserves of 9 billion barrels and is projected eventually to produce more than 2 million barrels per day. The power units (total capacity 61 MW) were chosen for fast installation and commissioning to power the accommodation camp for the field's central processing facility.

## PLUG-AND-PLAY FLEXIBILITY

In response to the growing need for temporary peaking power, the Cat® Rental Power network utilizes the Taurus 60 and Titan 130 Mobile Power Units in its fleet of rental power. Many of the mobile gas turbines are deployed when a reliable source of on-site power generation is needed to ensure a stable energy supply during a power crisis. The units provide an environmentally friendly power source that can be easily deployed and permitted. The low-profile design and sound-attenuated enclosure system, along with the low emissions of the Taurus 60 and Titan 130, offer a solution that is easy to permit and operate without special exemptions.

## A BOOST FOR RELIABILITY

Three rented Mobile Power Units from Solar Turbines bolster the capacity of the Mica Creek Power Station near Mount Isa, Queensland, Australia. The station, sole power source for remote northwest Queensland, supplies the region's mines along with homes and businesses in local communities. A government-owned electricity-generating company rented three Solar MPUs — a 15 MW Titan 130 and two 6 MW Taurus 60s — to meet the region's increasing peak power demand and provide constant, reliable power.

# PLUG IN TO MOBILE POWER

Discover all that mobile power solutions can do for you. Our culture of care includes a commitment to the highest-quality experience from your initial inquiry and throughout the life of your mobile installation.

Contact a Solar Turbines representative today.

## Solar<sup>®</sup> Turbines

**A Caterpillar Company**



[www.solarturbines.com/powergeneration](http://www.solarturbines.com/powergeneration)

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