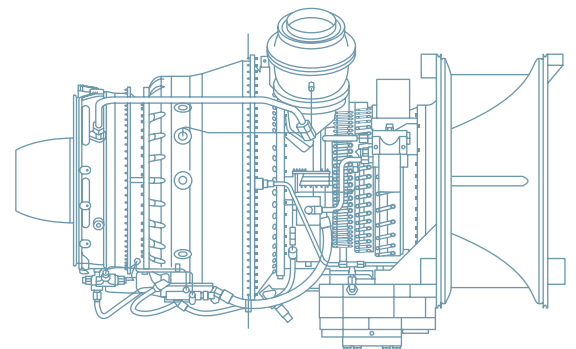
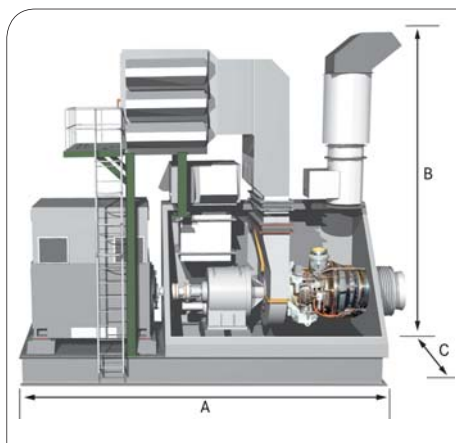




VPS series generator sets for power generation and cogeneration (CHP)



VPS1-487 kW/
VPS3-3,086 kW/
VPS4-3,451 kW



VPS series generator sets

The heart of our generator sets are the reliable ASE™ aeroderivative gas turbines. Our engines originate from the time-tested Lycoming and Garrett gas turbines that have been in service for more than 30 years in a wide variety of industrial, military and commercial marine applications. A fleet of some 600 installations have logged more than 1.5 million operating hours. Our gas turbines feature a compact

cold end drive design. A flexible on-condition maintenance plan assures high availability.

Worldwide support 24/7

Customer support is a key part of Vericor's product offerings. Dedicated and responsive customer support teams work to ensure reliable and cost-effective operation. Each customer is assigned a Customer Service Manager (CSM) who is responsible for all support needs 24 hours a day, seven days a week.

Power generation

		VPS1	VPS3	VPS4
Nominal performance*		Natural gas	Natural gas	Natural gas
Output power	kW	487	3,086	3,451
Heat rate	Btu/kWh	16,751	12,716	12,025
	kJ/kWh	17,671	13,415	12,686
Thermal efficiency	%	20.4	26.8	28.4
Fuel flow	lbs/h	397	1,910	2,020
	kg/h	180	866	916
Fuel pressure required (min./max.)	psig	250/300	200/250	250/300
	kPA	1,723/2,068	1,379/1,723	1,723/2,068
Exhaust gas flow	lbs/s	7.8	28.0	30.1
	kg/s	3.56	12.7	13.7
Exhaust gas temperature	F	913	1,115	1,080
	°C	489	602	582
Length (A)	ft	14.00	25.30	25.30
	m	4.27	7.72	7.72
Height (B)	ft	14.10	20.00	20.00
	m	4.29	6.10	6.10
Width (C)	ft	8.50	8.60	8.60
	m	2.59	2.64	2.64

* 59 F, sea level, RH60%, 3" inlet/4" exhaust losses, generator and gear losses included; LHV: 20,548 Btu/lb., 47,486 kJ/kg.

About Vericor

Vericor is an MTU Aero Engines company based in Alpharetta, Georgia, U.S.A. Vericor supplies gas turbines, systems and related services for marine, oil and gas and power generation customers. Vericor is dedicated to being responsive, flexible and easy to work with while providing quality, cost-effective solutions and services.



An MTU Aero Engines Company

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VPS series scope of supply

Standard equipment

ASE series gas turbine
Epicyclic reduction gear box (1,800 rpm)
Generator
(synchronous, 60 Hz, 4,160 V, AC), WPII

Natural gas fuel system

Lube system (water cooled)
Electro hydraulic start system
Structural steel base, weatherproof
acoustic enclosure (gas turbine, reduction
gearbox) with ventilation air system
Combustion air intake system
(barrier filter)
Allen Bradley PLC

Optional equipment

Gas turbine water wash system
Epicyclic reduction gear box (1,500 rpm)
Open ventilated and totally enclosed
water-to-air cooled (TEWAC) enclosures,
50 Hz, other voltages, high voltage
generator switchgear
Distillate fuel system, dual fuel system, fuel
gas conditioning skid, fuel gas compressor,
water injection system
Oil/Air cooler
Black start system
No enclosure, no fire and combustible gas
detection or suppression systems
Self cleaning filter, chilling, evaporative
cooling
Generator controls, MCC, HMI-Station,
uninterruptible power supply (UPS), control
room building, remote control interfaces
Exhaust silencer, stack, heat recovery
steam generator (20,000 - 65,000 lbs/h)