

TAD732GE

7.15 liter, in-line 6 cylinder





The TAD732GE is a powerful, reliable and economical Generating Set Diesel Engine built on the dependable inline six design.

Durability & low noise

Designed for easiest, fastest and most economical installation. Well-balanced to produce smooth and vibration-free operation with low noise level.

To maintain a controlled working temperature in cylinders and combustion chambers, the engine is equipped with piston cooling. The engine is also fitted with replaceable cylinder liners and valve seats/guides to ensure maximum durability and service life of the engine.

Low exhaust emission

The state of the art, high-tech injection and charging system with low internal losses contributes to excellent combustion and low fuel consumption.

The TAD732GE complies with EU Stage 2 and TA-Luft exhaust emission regulations.

Easy service & maintenance

Easily accessible service and maintenance points contribute to the ease of service of the engine.

- Electronic governing, EDC4
- CAN bus communication
- Compact design
- · High power to weight ratio
- Emission compliant
- · Noise optimized engine design
- A wide selection of optional equipment and power settings

50 Hz/1500 rpm

60 Hz/1800 rpm

Prime power			Standby power		Prime power			Standby power			Gen.eff.	
kWm	kWe	kVa	kWm	kWe	kVa	kWm	kWe	kVa	kWm	kWe	kVa	%
159	149	186	176	165	206	173	165	206	192	181	227	92

kWm = kiloWatt mechanical, net with fan*; **kWe** = kiloWatt electrical = kWm x Generator eff.; **kVA** = kiloVoltAmpere calculations based on a 0.8 power factor = kWe / 0.8 **1 kW** = 1 hp x 1.36; **1 hp** = 1 kW x 0.7355

⊗ www.famcocorp.com

E-mail: info@famcocorp.com

@famco_group

(Tel:071- F A 0 0 0 0 F 9

(a) Fax:011 - FF99F9FF

تهران، کیلومتر ۲۱ بزرگراه لشگری (جاده مخصوص کرج) روبـروی پالایشگاه نفت پارس، پلاک ۱۲

^{*)} According to technical data



AD732GE

7.15 liter, in-line 6 cylinder

Technical Data

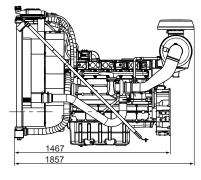
General

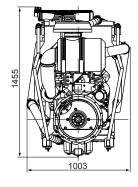
Engine designation	TAD732GE
No. of cylinders and configuration	in-line 6
Method of operation	
Bore, mm (in.)	108 (4.25)
Stroke, mm (in.)	130 (5.12)
Displacement, I (in ³)	7.15 (436.3)
Compression ratio	18:1
Dry weight, with cooling package, kg (lb)	785 (1731)
Dry weight, with cooling package, kg (lb)	826 (1821)
0, 0, 0, ,	, ,

1500 rpm	1800 rpm		
159 (217) 176 (239)	173 (235) 192 (261)		
1500 rpm /h) at:	1800 rpm		
0.08 (0.021)	0.09 (0.024)		
0.09 (0.024) ter	0.11 (0.029)		
	159 (217) 176 (239) 1500 rpm /h) at: 0.08 (0.021) 0.09 (0.024)		

on eyesen supusity men mene, near minimum mene						
Fuel system Specific fuel consumption at: Prime Power, g/kWh (lb/hph)	1500 rpm	1800 rpm				
25 % 50 % 75 % 100 %	270 (0.438) 219 (0.354) 213 (0.345) 213 (0.345)	260 (0.422) 225 (0.364) 217 (0.352) 218 (0.354)				
Standby Power, g/kWh (lb/hph) 25 % 50 % 75 % 100 %	234 (0.379) 215 (0.348) 212 (0.344) 214 (0.347)	244 (0.395) 220 (0.356) 216 (0.350) 220 (0.356)				

Dimensions TAD732GE





Technical description

Engine and block

- Optimized cast iron cylinder block with optimum distribution of forces
- Piston cooling for low piston temperature and reduced ring tem-
- Drop forged steel connecting rods
- Crankshaft hardened bearing surfaces and fillets for moderate load on main and big-end bearings
- Keystone top compression rings for long service life
- Replaceable valve guides and valve seats
- Three PTO positions at flywheel end
- Lift eyelets
- Flywheel housing with connection acc. to SAE 2
- Flywheel for flexible coupling and friction clutch
- Transport brackets

Lubrication system

- Full flow disposable spin-on oil filter, for extra high filtration
- Rotary displacement oil pump driven by the crankshaft
- Deep centre oil sump, 30° inclination
- Oil filler on top
- Oil dipstick, short in front
- Integrated full flow oil cooler, side-mounted

Fuel system

- Six hole fuel injection nozzles
- Direct injection unit pumps
- Electronic governor with smoke limiter functionWashable fuel prefilter with water separator
- Rotary low-pressure fuel pump
- Fine fuel filter of disposable type

Intake and exhaust system

- Connection flange for exhaust line
- Turbo charger, centre low with exhaust flange
- Closed crankcase ventilation
- Heater flange in charge air inlet (without power relay)

Cooling system

- Belt driven, maintenance-free coolant pump with high degree of efficiency
- Efficient cooling with accurate coolant control through a water distribution duct in the cylinder block
- Reliable thermostat with minimum pressure drop
- Cooling water pipe, inlet and outlet
- Belt driven coolant pump, ratio 1.0:1
- Fan hub
- Fan on separate bracket 292mm above crankshaft
- Pusher fan Ø 600 mm

Electrical system

- 24V electrical system
- Alternator 1x35A / 24V, low left
 Starter motor, Melco, 5.5kW / 24V, single pole
- ECU (without high altitude sensor) control and monitoring of oil pressure, coolant temperature, coolant level, charge air pressure, engine rpm and fuel temperature compensation
- Engine wiring

Rating guidelines

PRIME POWER rating corresponds to ISO Standard Power for continuous operation. It is applicable for supplying electrical power at variable load for an unlimited number of hours instead of commercially purchased power. A10 % overload capability for govering purpose is available for this rating.

STAND-BY POWER rating corresponds to ISO Standard Fuel Stop Power. It is applicable for supplying stand-by electrical power at variable load in areas with well established electrical networks in the event of normal utility power failure. No overload capability is available for this rating.



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Power standards

The engine performance corresponds to ISO 3046, BS 5514 and DIN 6271. The technical data applies to an engine without cooling fan and operating on a fuel with calorific value of 42.7 MJ / kg (18360 BTU/lb) and a density of 0.84 kg/liter (7.01 lb/US gal), also where this involves a deviation from the standards. Power output guaranteed within 0 to $\pm 2\%$ att rated ambient conditions at delivery. Ratings are based on ISO 8528. Engine speed governing in accordance with ISO 8528-5 G3.

Please contact your local Volvo Penta dealer for further information. Please note that products illustrated may differ from production models. Not all models and accessories are available in all markets, and standard equipment may vary between different markets. Every effort has been made to ensure that facts and figures are correct at the time of publication. However, Volvo Penta reserves the right to make changes without prior notice at any time.

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🔁 E-mail: info@famcocorp.com

@famco_group



📵 Fax:071 - ۴۴99۴۶۴۲

تهران، کیلومتر۲۱ بزرگراه لشگری (جاده مخصوص کرج)

روبـروی پالایشگاه نفت پـارس، پلاک ۱۲