

6M26G550/5e2

G-Drive Engine Datasheet

Speed	Gross Engine Output		
Speed	COP	PRP	ESP
rpm	kWm	kWm	kWm
1500	368	440	484

Ratings definitions

	Continuous Power (COP)	Prime Power (PRP)	Standby Power (ESP)
Annual working time	Unlimited	Unlimited	≤200 h
Mean engine load factor	100%	≤70% per 250 h	≤80% per 24 h
Time at full load	Unlimited	≤500 h per year	≤25 h per year
Overload capacity	No	1 h per 12 h(10% overload) ≤25h per year	No

- 1) The power ratings are in accordance with ISO 3046.
- 2) Test conditions: 100 kPa, 25 °C air inlet temperature, relative humidity of 30%, with fuel density 0.84 kg/L.
- 3) The engine maybe operated at : up to 1000m and 30°C without power deration. For sustained operation above these conditions, derate by 3% per 300m, and 2% per 11°C.
- 4) Power output curves are based on the engine operating with fuel system, water pump and lubricating oil pump; not included are battery charging alternator, fan and optional equipment.

Basic data

Engine model	6M26G550/5e2	No. of Cylinders/Valves	6/24
Bore×Stroke (mm)	150×150	Displacement (L)	15.9
Fuel system	Mechanical pump	Aspiration	Turbocharged and Intercooled
Compression ratio	15.7:1	Emission standard	EU Stage II
Overall Dimension (Length×Width×Height) (mm)	2260×1220×1545	Engine net weight (kg)	1900
Fuel supply advance angle (°)	17-18		
Flywheel housing	SAE 1 Flywheel 14"		
Max. permited installing angle	Longitudinal inclination	Front /Rear	12.5/12.5
(°)	Cross inclination	Left/Right	22.5/22.5
Permitted temperature ambient (${}^{\circ}$ C)	-10-50	Permitted altitude limit (m)	2000
Valve lash/clearance at cold (mm)	(intake valve:0.3±0.03) /(exhaust valve:0.4±0.03)		

Performance data

Idle Speed (rpm)	750±30	Max. Speed Limit (rpm)	1545
Mean Piston Speed (m/s)	7.5	BMEP (MPa)	2.213
Friction Power (kW)	/	Fan Power (kW)	15
Load factor	Power (kW)	Fuel consum. g/(kW.h)	Fuel consum. (L/h)
10%	44.0	279.9	14.7
25%	110.0	223.4	29.3
40%	176.0	209.5	43.9
50%	220.1	204.5	53.6
60%	264.1	201.6	63.4
75%	330.0	199.6	78.4
90%	396.0	199.0	93.8
100%	440.0	200.2	104.9
110%	483.4	203.0	116.8

Air intake system



Air intake temperature rise ($^{\circ}$ C)	Permitted difference between turbocharger inlet temperature and ambient temperature(this parameter impacts emission ,LAT and altitude capability)	5
A::: (1 (1 P.)	Clean filter	≤3
Air intake resistance (kPa)	Dirty filter	≤5
N 11: G 4.1	Rated Power	2061
Needed air flow (kg/h)	Standby Power	2220
Air filter e	fficiency	≥99.5%
Recommended Min. diam	eter of intake pipe (mm)	140
Intercooler system		
Intercooler heat dissipating	Rated Power	73.8
capacity (kJ/s)	Standby Power	86.3
· ·	Rated Power	≥85%
Intercooler efficiency	Standby Power	≥85%
Max. intake temperature when the a	· •	55
Permited temperature difference betw		
temperature difference servi	_	30
Permitted max. intake pressu	re drop of intercooler (kPa)	15
Intercooler radiator	cooling area (m ²)	68.9
Exhaust system		
Permited Max. exhaus	t back pressure (kPa)	7.5
1 01111100 11111111 011111111	Before turbocharger	750
Max. exhaust temperature ($^{\circ}$ C)	After turbocharger	550
	Rated Power	2149
Exhaust flow (kg/h)	Standby Power	2318
Recommended Min. diameter of exhaust pipe (mm)		200
Max.bending moment at the t	* * ' '	10
Lubrication system		
Volume of o	oil non (I.)	50
	* ` ′	
Oil pressure in normal condition (kPa)	Idle speed Rated Power	≥200 450~650
Lowest oil pressure alarm valve		200/1000
	· ·	85~105
Temperature range in main oil passage under rated working condition (°C)		1000
Max. oil pressure while engine starts (kPa)		550-600
Opening pressure of main oil passage pressure limiting valve		≥190 (1500rpm) , ≥198 (1800rpm)
Oil flow (L/min) Oil fuel consumption ratio		≥190 (1300rpm) , ≥198 (1800rpm) ≤0.3%
	трион тано	≥0.370
Noise and Emission		
Exhaust smoke (FSN)	Rated working station	≤1.5
	Max. torque working conditon	/
Diesel engine noise (Acou	stic power level) (dB(A))	118.2
Fuel system		
Gove	rnor	Electric governor
0. 1. 1.1		

≤3%

Steady speed droop



Max. fuel supply resistance of the fuel pump inlet at rated working conditon (kPa)		13	
Max. fuel return resistance (kPa)		15	
Permited Max. fuel inlet temperature (°C)		45	
Fuel suply flow (kg/h)	Rated Power	88.09	
	Standby Power	98.22	
Min. pressure of fuel pump (kPa)		35	
Recommended min. diameter of inlet pipe (mm)		12	
Recommended min. diameter of return pipe (mm)		12	
lectric system			
Electric system voltage(V)		24	
Starter power/voltage (kW/V)		8.5/24	

1.54/28V 0.002

70

0

-10

The lowest cold starting temperature (°C)

Cooling system	
Water pump Transmission speed ratio	2
Permited Min. coolant temperature when engine working (°C)	50
Coolant fill rate (L/min)	11
Max. time to fill (min)	8
Recommended Min. inside diameter of outlet water pipe(mm)	45
Min. pressure at water pump inlet without degassing device or with some degassing device (kPa)	50
Min. pressure at water pump inlet with full degassing device (kPa)	0
Max. degassing time(min)	25
Coolant capacity of engine (L)	79
Coolant capacity of radiator (L)	63
Water alarm temperature (°C)	95
Thermostat opening temp./ full open temp. ($^{\circ}$ C)	77 (1/-2) / 87
Permitted Min. pressure in cooling system	50
Permitted Max. external resistance (at rated speed)	50

Heat balance test data (with ambient temperature 30℃)

Alternator power/voltage (kW/V)

Permited Max. electric resistance of the starting circuit (Ω)

Recommended Min. sectional area of wire (mm²)

Without auxiliary starting device

With auxiliary starting device

Pressure of water in/ water out	Rated Power	-30.1/68.2
(kPa/kPa)	Standby Power	-31.8/65.6
Coolant flow (m ³ /h)	Rated Power	30.6
Coolant flow (m/n)	Standby Power	28.5
Temperature of water in/ water out $(^{\circ}\mathbb{C}/^{\circ}\mathbb{C})$	Rated Power	84.1/90.1
	Standby Power	86.9/94.3
Temperature before/after	Rated Power	185.0/56.6
intercooler ($^{\circ}\mathbb{C}/^{\circ}\mathbb{C}$)	Standby Power	200.0/60.8
Pressure before /after intercooler (kPa / kPa)	Rated Power	216.4/212.2
	Standby Power	243.1/238.2
Heat taken away by Coolant	Rated Power	213.2



(kJ/s)	Standby Power	245.3
Heat taken away by intercooler	Rated Power	73.8
(kJ/s)	Standby Power	86.3
Heat taken away by exhaust gas	Rated Power	308.0
(kJ/s)	Standby Power	346.5
Total heat dissipation (kJ/s)		1027.8/1146.0

Mounting system

Inertia of flywheel (kg•m²)	4.68
Inertia of crankshaft (kg•m²)	1.71

Fuel consum. Curve

