

Name	12V1600G10F	Speed [rpm]	1500
Application Group	3B	Nominal power [kW]	524
Dataset	Ref. 25°C/-	Nominal power [bhp]	703
		Frequency [Hz]	50

Exhaust Regulations Fuel-consumption optimized; NEA Singapore for ORDE;

Reference conditions

No.	Description	Index	Value	Unit
6	Intake air temperature		25	°C
8	Barometric pressure		1000	mbar
9	Site altitude above sea level		100	m

0. Data-relevant engine design configuration

No.	Description	Index	Value	Unit
8	Engine rated speed switchable (1500/1800 rpm)		-	-
13	Engine without sequential turbocharging (turbochargers without cut-in/cut-out control)		X	-
31	Engine with air-cooled charge air		X	-

1. Power-related data

No.	Description	Index	Value	Unit
1	Engine rated speed	A	1500	rpm
3	Mean piston speed		7.5	m/s
4	Continuous power ISO 3046 (10% overload capability) (design power DIN 6280, ISO 8528)	A	524	kW
5	Fuel stop power ISO 3046	A	576	kW
8	Mean effective pressure (MEP) (Continuous power ISO 3046)		19.96	bar
9	Mean effective pressure (MEP) (Fuel stop power ISO 3046)		21.92	bar

2. General Conditions (for maximum power)

No.	Description	Index	Value	Unit
1	Intake air depression (new filter)	A	25	mbar
2	Intake air depression, max.	L	50	mbar
3	Exhaust back pressure	A	85	mbar
4	Exhaust back pressure, max.	L	85	mbar
5	Fuel temperature at fuel feed connection	R	38	°C
9	Fuel temperature at fuel feed connection, max. (w/o power reduction)	L	60	°C
10	Fuel temperature at fuel feed connection, max.	L	70	°C
49	Max. ambient temperature in direct vicinity of vibration damper	L	55	°C

3. Consumption

No.	Description	Index	Value	Unit
17	Specific fuel consumption (be) - 100 % CP (+ 5 %; EN 590; 42.8 MJ/kg)	R	192	g/kWh

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Exhaust Regulations Fuel-consumption optimized; NEA Singapore for ORDE;

18	Specific fuel consumption (be) - 75 % CP (+ 5 %; EN 590; 42.8 MJ/kg)	R	199	g/kWh
19	Specific fuel consumption (be) - 50 % CP (+ 5 %; EN 590; 42.8 MJ/kg)	R	207	g/kWh
20	Specific fuel consumption (be) - 25 % CP (+ 5 %; EN 590; 42.8 MJ/kg)	R	227	g/kWh
56	Specific fuel consumption (be) - 100 % FSP (+ 5 %; EN 590; 42.8 MJ/kg)	R	192	g/kWh
57	Specific fuel consumption (be) - 75 % FSP (+ 5 %; EN 590; 42.8 MJ/kg)	R	197	g/kWh
58	Specific fuel consumption (be) - 50 % FSP (+ 5 %; EN 590; 42.8 MJ/kg)	R	206	g/kWh
59	Specific fuel consumption (be) - 25 % FSP (+ 5 %; EN 590; 42.8 MJ/kg)	R	223	g/kWh
73	No-load fuel consumption	R	2.1	kg/h
61	Lube oil consumption after 100 h of operation (B = fuel consumption per hour)	R	<0.2	% of B
62	Lube oil consumption after 100 h of operation, max. (B = fuel consumption per hour)	L	<0.5	% of B

4. Model-related data (basic design)

No.	Description	Index	Value	Unit
3	Engine with exhaust turbocharger (ETC) and intercooler		X	-
4	Exhaust piping, non-cooled		X	-
33	Working method: four-cycle, diesel, single-acting		X	-
34	Combustion method: direct injection		X	-
36	Cooling system: conditioned water		X	-
37	Direction of rotation: c.c.w. (facing driving end)		X	-
6	Number of cylinders		12	-
7	Cylinder configuration: V angle		90	degrees (°)
10	Bore		122	mm
11	Stroke		150	mm
12	Displacement, cylinder		1.75	liter
13	Displacement, total		21.0	liter
14	Compression ratio		17.5	-
41	Cylinder liners: wet, replaceable		X	-
24	Number of inlet valves, per cylinder		2	-
25	Number of exhaust valves, per cylinder		2	-
15	Number of turbochargers		2	-
28	Standard flywheel housing flange (engine main PTO)		01	SAE
43	Flywheel interface (DISC)		14"	-

5. Combustion air / exhaust gas

No.	Description	Index	Value	Unit
19	Charge-air temperature before cylinder	A	50	°C
33	Charge-air flow through external air-to-air intercooler	A	0.33	m³/s

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34	Charge-air temperature before external air-to-air intercooler	A	220	°C
35	Charge-air temperature after external air-to-air intercooler	A	50	°C
36	Charge-air temperature after external air-to-air intercooler, max.	L	65	°C
37	Charge-air temperature after external air-to-air intercooler, min.	L	-15	°C
39	Pressure differential in external air-to-air intercooler, max.	L	130	mbar
8	Charge-air pressure before cylinder - CP	R	2.7	bar abs
27	Charge-air pressure before cylinder - FSP	R	2.9	bar abs
9	Combustion air volume flow - CP	R	0.60	m³/s
10	Combustion air volume flow - FSP	R	0.80	m³/s
11	Exhaust volume flow (at exhaust temperature) - CP	R	1.5	m³/s
12	Exhaust volume flow (at exhaust temperature) - FSP	R	1.7	m³/s
15	Exhaust temperature after turbocharger - CP	R	482	°C
16	Exhaust temperature after turbocharger - FSP	R	482	°C

6. Heat dissipation

No.	Description	Index	Value	Unit
16	Heat dissipated by engine coolant - FSP with oil heat, without charge-air heat	R	236	kW
26	Charge-air heat dissipation - CP	R	87	kW
27	Charge-air heat dissipation - FSP	R	104	kW
31	Heat dissipated by return fuel flow - CP	R	3.4	kW
32	Heat dissipated by return fuel flow - FSP	R	3.6	kW
33	Radiation and convection heat, engine - CP	R	25	kW

7. Coolant system (high-temperature circuit)

No.	Description	Index	Value	Unit
17	Coolant temperature (at engine outlet to cooling equipment)	A	95	°C
20	Coolant temperature after engine, limit 1	L	105	°C
21	Coolant temperature after engine, limit 2	L	109	°C
25	Coolant antifreeze content, max.	L	50	%
30	Cooling equipment: coolant flow rate	A	26	m³/h
35	Coolant pump: inlet pressure, min.	L	1.4	bar
36	Coolant pump: inlet pressure, max.	L	3.5	bar
41	Pressure loss in off-engine cooling system, max.	L	1	bar
47	Breather valve (expansion tank) opening pressure (excess pressure)	R	1	bar
54	Cooling equipment: height above engine, max.	L	15	m
48	Breather valve (expansion tank) opening pressure (depression)	R	-0.2	bar
49	Pressure in cooling system, max.	L	5.0	bar

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10. Lube oil system

No.	Description	Index	Value	Unit
1	Lube oil operating temp. before engine, from	R	105	°C
2	Lube oil operating temp. before engine, to	R	115	°C
8	Lube oil operating press. bef. engine, from	R	4.5	bar
9	Lube oil operating press. bef. engine, to	R	5.5	bar
10	Lube oil pressure before engine, alarm	L	2.6	bar
11	Lube oil pressure before engine, shutdown	L	2.4	bar
19	Lube oil fine filter (main circuit): number of units		1	-
20	Lube oil fine filter (main circuit): number of elements per unit		4	-
56	Lube-oil fine filter (main flow), particle size 1		10	µm
57	Lube-oil fine filter (main flow), filtering efficiency re 1		26	%
58	Lube-oil fine filter (main flow), particle size 2		15	µm
59	Lube-oil fine filter (main flow), filtering efficiency re 2		50	%
60	Lube-oil fine filter (main flow), particle size 3		20	µm
61	Lube-oil fine filter (main flow), filtering efficiency re 3		75	%
32	Lube oil fine filter (main circuit): pressure differential, max.	L	2	bar

11. Fuel system

No.	Description	Index	Value	Unit
1	Fuel pressure at engine fuel feed connection, min. (when engine is starting)	L	-0.5	bar
2	Fuel pressure at engine fuel feed connection, max. (when engine is starting)	L	0.5	bar
4211	Max. fuel supply volume Normal mode	A	4.8	liter/min
4212	Max. fuel supply volume Failure mode	A	5.3	liter/min
4213	Max. fuel return volume Normal mode	A	2.1	liter/min
4214	Max. fuel return volume Failure mode	A	4.1	liter/min
10	Fuel pressure at return connection on engine, max.	L	<0.4	bar
18	Fuel fine filter (main circuit): number of units	A	1	-
19	Fuel fine filter (main circuit): number of elements per unit	A	1	-
68	Fuel fine filter, particle size 1		4	µm
69	Fuel fine filter, filtering efficiency re 1		99.5	%
70	Fuel fine filter, particle size 2		6	µm
71	Fuel fine filter, filtering efficiency re 2		99.8	%
72	Fuel fine filter, particle size 3		14	µm
73	Fuel fine filter, filtering efficiency re 3		99.8	%
21	Fuel fine filter (main circuit): pressure differential, max.	L	2	bar

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Exhaust Regulations Fuel-consumption optimized; NEA Singapore for ORDE;

12. General operating data

No.	Description	Index	Value	Unit
1	Cold start capability: air temperature (w/o starting aid, w/o preheating) - (case A)	R	-20	°C
2	Additional condition (to case A): engine coolant temperature	R	-20	°C
3	Additional condition (to case A): lube oil temperature	R	-20	°C
4	Additional condition (to case A): lube oil viscosity	R	10W40	SAE
9	Cold start capability: air temperature (w/o starting aid, w/ preheating) - (case C)	R	-40	°C
10	Additional condition (to case C): engine coolant temperature	R	32	°C
11	Additional condition (to case C): lube oil temperature	R	32	°C
12	Additional condition (to case C): lube oil viscosity	R	10W40	SAE
21	Coolant preheating, heater performance (standard)	R	3	kW
22	Coolant preheating, preheating temperature, min.	L	32	°C
3506	Coolant preheating, preheating temperature, max.	L	55	°C
28	Breakaway torque (without driven machinery) coolant temperature +5°C	R	750	Nm
30	Breakaway torque (without driven machinery) coolant temperature +40°C	R	450	Nm
29	Cranking torque at firing speed (without driven machinery) coolant temperature +5°C	R	400	Nm
31	Cranking torque at firing speed (without driven machinery) coolant temperature +40°C	R	270	Nm
96	Starting is blocked if the engine coolant temperature is below		-20	°C
37	High idling speed, max. (static)	L	1560	rpm
38	Limit speed for overspeed alarm / emergency shutdown	L	1800	rpm
42	Firing speed, from	R	80	rpm
43	Firing speed, to	R	120	rpm
44	Engine coolant temperature before starting full-load operation, recommended min.	R	60	°C
48	Minimum continuous load	R	20	%
50	Engine mass moment of inertia (without flywheel)	R	1.548	kgm ²
52	Standard flywheel mass moment of inertia	R	1.44	kgm ²
1981	Block bending moment - SAE 0	R	3	kNm
1982	Block bending moment - SAE 1	R	3	kNm
51	Engine mass moment of inertia (with standard flywheel)	R	2.988	kgm ²
109	Speed droop (with electronic governor) adjustable P1	R	4	%
110	Speed droop (with electronic governor) adjustable P2	R	0.4	%
95	Number of starter ring-gear teeth on engine flywheel		157	-

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13. Starting (electric)

No.	Description	Index	Value	Unit
2309	Manufacturer		Prestolite	-
2310	Number of starter		1	-
2312	Starter electrically redundant		-	-
2313	Rated power per starter	R	7.5	kW
2314	Starter, rated voltage	R	24	VDC
2315	Rated short-circuit current per starter	L	1730	A
3000	Power consumption per starter (at an engine speed of 100 rpm, SAE0)	R	400	A
3002	Power consumption per starter (at an engine speed of 100 rpm, SAE1)	R	540	A
2317	Internal resistance of power supply + line resistance per starter	A	0.008	Ω
2318	Manufacturer		Prestolite	-
2319	Number of starter		1	-
2320	Starter electrically redundant		X	-
2321	Rated power per starter	R	7.5	kW
2322	Starter, rated voltage	R	24	VDC
2323	Rated short-circuit current per starter	L	1730	A
3001	Power consumption per starter (at an engine speed of 100 rpm, SAE0)	R	400	A
3003	Power consumption per starter (at an engine speed of 100 rpm, SAE1)	R	540	A
2325	Internal resistance of power supply + line resistance per starter	A	0.008	Ω
2326	Manufacturer		Prestolite	-
2327	Number of starter		2	-
2328	Starter electrically redundant		-	-
2329	Rated power per starter	R	7.5	kW
2330	Starter, rated voltage	R	24	VDC
2331	Rated short-circuit current per starter	L	1730	A
3251	Power consumption per starter (at an engine speed of 100 rpm, SAE0)	R	400	A
3252	Power consumption per starter (at an engine speed of 100 rpm, SAE1)	R	540	A
2333	Internal resistance of power supply + line resistance per starter	A	0.008	Ω
2347	Generally valid data for starter		X	-
2342	Rated starting-attempt Duration (at +20°C ambient temperature with battery)	R	3	s
2343	Interval between starts (at rated starting-attempt duration), min.	L	5	s
2345	Maximum acceptable starting-attempt duration	L	15	s
2344	Interval between starts (when starting-attempt duration > rated starting-attempt duration)	R	60	s
2346	Starting attempts within 30 minutes (at +20°C ambient temperature with battery full), max.	L	6	-

16. Inclinations - standard oil system (ref.: waterline)

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15	Longitudinal inclination, continuous max. driving end down (Option: max. operating inclinations)	L	15	degrees (°)
17	Longitudinal inclination, continuous max. driving end up (Option: max. operating inclinations)	L	15	degrees (°)
19	Transverse inclination, continuous max. (Option: max. operating inclinations)	L	15	degrees (°)

18. Capacities

No.	Description	Index	Value	Unit
1	Engine coolant capacity (without cooling equipment)	R	65	liter
11	On-engine fuel capacity	R	3 *	liter
14	Engine oil capacity, initial filling (standard oil system) (Option: max. operating inclinations)	R	72.5	liter
20	Oil change quantity, max. (standard oil system) (Option: max. operating inclinations)	R	64	liter
28	Oil pan capacity, dipstick mark min. (standard oil system) (Option: max. operating inclinations)	L	56	liter
29	Oil pan capacity, dipstick mark max. (standard oil system) (Option: max. operating inclinations)	L	64	liter

19. Masses / dimensions

No.	Description	Index	Value	Unit
7	Engine dry mass (with engine-mounted standard accessories, without coupling)	R	1855 *	kg
12	Engine mass, wet (with engine-mounted standard accessories, without coupling)	R	1918	kg

20. Fan / fan cooler

No.	Description	Index	Value	Unit
3	Fan, pusher-type		X	-
18	Fan arrangement: vertical above crankshaft		X	-
9	Fan drive: mechanical via V-belt		X	-
13	Fan: speed	R	1500	rpm

21. Exhaust emissions

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2005	Emissions data sheet: NEA Singapore for ORDE		EDS16000120	-
1960	Emissions data sheet: MoEF India / CPCB Stage I		EDS16000098	-
1972	Emissions data sheet: Fuel-consumption optimized		EDS16000099	-

22. Acoustics

No.	Description	Index	Value	Unit
101	Exhaust noise, unsilenced - CP (free-field sound-pressure level Lp, 1m distance, ISO 6798, +3dB(A) tolerance)	R	109	dB(A)
201	Exhaust noise, unsilenced - CP (sound power level LW, ISO 6798, +3dB(A) tolerance)	R	121	dB(A)
102	Exhaust noise, unsilenced - FSP (free-field sound-pressure level Lp, 1m distance, ISO 6798, +3dB(A) tolerance)	R	109	dB(A)
202	Exhaust noise, unsilenced - FSP (sound power level LW, ISO 6798, +3dB(A) tolerance)	R	122	dB(A)
103	Exhaust noise, unsilenced - CP (free-field sound-pressure level Lp, 1m distance, ISO 6798) Spectrum No.	R	735163e	-
203	Exhaust noise,unsilenced - CP (sound power level LW, ISO 6798) Spectrum No.	R	-	-
109	Engine surface noise with attenuated intake noise (filter) - CP (free-field sound-pressure level Lp, 1m distance, ISO 6798, +2dB(A) tolerance)	R	102	dB(A)
209	Engine surface noise with attenuated intake noise (filter) - CP (sound power level LW, ISO 6798, +2dB(A) tolerance)	R	120	dB(A)
111	Engine surface noise with attenuated intake noise (filter) - CP (free-field sound-pressure level Lp, 1m distance, ISO 6798) Spectrum No.	R	735156e	-
211	Engine surface noise with attenuated intake noise (filter) - CP (sound power level LW, ISO 6798) Spectrum No.	R	-	-
113	Engine surface noise with attenuated intake noise (intake silencer) - CP (free-field sound-pressure level Lp, 1m distance, ISO 6798, +2dB(A) tolerance)	R	100	dB(A)

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114	Engine surface noise with attenuated intake noise (intake silencer) - FSP (free-field sound-pressure level Lp, 1m distance, ISO 6798, +2dB(A) tolerance)	R	101	dB(A)
125	Structure borne noise at engine mounting brackets in vertical direction above resilient engine mounts - CP Spectrum No.	R	735249e	-
126	Structure borne noise at engine mounting brackets in vertical direction above resilient engine mounts - FSP Spectrum No.	R	735248e	-

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Engine power that can be run continuously under standard conditions
[>] Actual value must be greater than specified value
[<] Actual value must be less than specified value

[X] Applicable
The module is valid for this product type
[] Non-applicable
The module is not valid for this product type
[N] Value not named
The value has not yet been named or will not be named
[] Adequate verification not yet available (tolerance +/- 10%)
[]** Adequate verification not yet available (tolerance +/- 5%)

[A] Design value
Value required for the design of an external system (plant)
[R] Guideline value
Typical average value as information – only suitable for design purposes to a limited extent
[L] Limit value
A value representing the lower limit/minimum value or upper limit/maximum value that may not be exceeded. Not suitable for design purposes