- Product Data -



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 NOx emission optimized ;

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
0	Engine rated speed switchable			
0	(1500/1800 rpm)		-	-
12	Engine without sequential turbocharging		×	
12	(turbochargers without cut-in/cut-out control)		^	-
31	Engine with air-cooled charge air		х	-

1. Power-related data

No.	Description	Index	Value	Unit
1	Engine rated speed	А	1500	rpm
3	Mean piston speed		7.5	m/s
1	Continuous power ISO 3046 (10% overload capability)	^	524	kW
4	(design power DIN 6280, ISO 8528)	А	524	ĸvv
5	Fuel stop power ISO 3046	А	576	kW
0	Mean effective pressure (MEP)		19.96	har
0	(Continuous power ISO 3046)		19.90	bar
0	Mean effective pressure (MEP)		21.92	her
5	(Fuel stop power ISO 3046)		21.32	bar

2. General Conditions (for maximum power)

No.	Description	Index	Value	Unit
1	Intake air depression (new filter)	А	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	205	g/kWh

 BL Reference value: fuel stop power

 Maximum engine power that cannot be run continuously on some applications (stabilization reserve)

 DL Reference value: continuous power

 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

 IN non-applicable

 The module is not valid for this product type

 IN Value not named

 The value has not yet been named or will not be named

Adequate verification not yet available (tolerance +/-10%)
^{an} Adequate verification not yet available (tolerance +/-5%)

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Dataset	Ref. 25°C/-	Nominal power [bhp]	703
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Exhaust Regulations

NOx emission optimized ;

	Specific fuel consumption (be) - 75 % CP			
18	(+ 5 %; EN 590; 42.8 MJ/kg)	R	206	g/kWh
	Specific fuel consumption (be) - 50 % CP			
19	(+ 5 %; EN 590; 42.8 MJ/kg)	R	211	g/kWh
20	Specific fuel consumption (be) - 25 % CP	_		(h + + 4)
20	(+ 5 %; EN 590; 42.8 MJ/kg)	R	224	g/kWh
56	Specific fuel consumption (be) - 100 % FSP	D	206	~//.)A/h
50	(+ 5 %; EN 590; 42.8 MJ/kg)	R	206	g/kWh
57	Specific fuel consumption (be) - 75 % FSP	R	204	g/kWh
57	(+ 5 %; EN 590; 42.8 MJ/kg)	n	204	g/ K V VII
58	Specific fuel consumption (be) - 50 % FSP	R	210	g/kWh
50	(+ 5 %; EN 590; 42.8 MJ/kg)	N	210	g/KVVII
59	Specific fuel consumption (be) - 25 % FSP	R	226	g/kWh
55	(+ 5 %; EN 590; 42.8 MJ/kg)	n	220	g/ K V V I I
73	No-load fuel consumption	R	2.1	kg/h
61	Lube oil consumption after 100 h of operation	R	<0.2	% of B
01	(B = fuel consumption per hour)	N	-0.2	78 OF B
62	Lube oil consumption after 100 h of operation, max.	1	<0.5	% of B
<u> </u>	(B = fuel consumption per hour)	L		70 OF B

4. Model-related data (basic design)

No.	Description	Index	Value	Unit
3	Engine with exhaust turbocharger (ETC) and intercooler		Х	-
4	Exhaust piping, non-cooled		Х	-
33	Working method: four-cycle, diesel, single-acting		Х	-
34	Combustion method: direct injection		Х	-
36	Cooling system: conditioned water		Х	-
37	Direction of rotation: c.c.w. (facing driving end)		Х	-
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		Х	-
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	А	0.35	m³/s

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 DL Reference value: continuous power

 Engine power that can be run continuously under standard conditions

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Application Group	3B	Nominal power [kW]	524
Dataset	Ref. 25°C/-	Nominal power [bhp]	703
		Frequency [Hz]	50

Exhaust Regulations NOx

NOx emission optimized ;

34	Charge-air temperature before external	А	219	°C	
74	air-to-air intercooler	А	215	C	
35	Charge-air temperature after external	^	50	°C	
33	air-to-air intercooler	A	50	C	
36	Charge-air temperature after external		65	°C	
30	air-to-air intercooler, max.	L	65	C	
37	Charge-air temperature after external		-15	°C	
57	air-to-air intercooler, min.	L	-13	C	
39	Pressure differential in external		130	mbar	
39	air-to-air intercooler, max.	L	150	IIIDal	
8	Charge-air pressure before cylinder - CP	R	3.0	bar abs	
27	Charge-air pressure before cylinder - FSP	R	3.4	bar abs	
9	Combustion air volume flow - CP	R	0.60	m³/s	
10	Combustion air volume flow - FSP	R	0.63	m³/s	
11	Exhaust volume flow (at exhaust temperature) - CP	R	1.6	m³/s	
12	Exhaust volume flow (at exhaust temperature) - FSP	R	1.7	m³/s	
15	Exhaust temperature after turbocharger - CP	R	466	°C	
16	Exhaust temperature after turbocharger - FSP	R	470	°C	

6. Heat dissipation

No.	Description		Value	Unit	
16	Heat dissipated by engine coolant - FSP	D	D 250	250	kW
10	with oil heat, without charge-air heat	к	250	ĸvv	
26	Charge-air heat dissipation - CP		121	kW	
27	Charge-air heat dissipation - FSP		150	kW	
31	Heat dissipated by return fuel flow - CP		3.4	kW	
32	Heat dissipated by return fuel flow - FSP		3.6	kW	
33	Radiation and convection heat, engine - CP	R	24	kW	

7. Coolant system (high-temperature circuit)

No.	Description	Index	Value	Unit
17	Coolant temperature		95	*
1/	(at engine outlet to cooling equipment)	А	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	А	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)	R	1	bar
47	opening pressure (excess pressure)	ĸ	1	bai
54	Cooling equipment: height above engine, max.	L	15	m
48	Breather valve (expansion tank)	D	-0.2	hau
40	opening pressure (depression)	R	-0.2	bar
49	Pressure in cooling system, max.	L	5.0	bar

 BL
 Reference value: fuel stop power

 Maximum engine power that cannot be run continuously on some applications (stabilization reserve)
 DL

 DL
 Reference value: continuous power

 Engine power that can be run continuously under standard conditions
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- Product Data -



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

Exhaust Regulations NOx emission optimized ;

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):		1	
19	number of units		1	-
20	Lube oil fine filter (main circuit):		4	
20	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):		2	hav
32	pressure differential, max.	L	2	bar

11. Fuel system

No.	Description	Index	Value	Unit
1	Fuel pressure at engine fuel feed connection, min.		-0.5	bor
1	(when engine is starting)	L	-0.5	bar
2	Fuel pressure at engine fuel feed connection, max.		0.5	bar
2	(when engine is starting)	L	0.5	Dai
4211	Max. fuel supply volume	А	4.8	liter/min
4211	Normal mode	A	4.0	
4212	Max. fuel supply volume	^	5.3	liter/min
4212	Failure mode	A	5.5	iiter/iiiii
4213	Max. fuel return volume	А	2.1	liter/min
4215	Normal mode	A	2.1	
4214	Max. fuel return volume	А	4.1	liter/min
4214	Failure mode	~	7.1	
10	Fuel pressure at return connection on engine, max.	L	<0.4	bar
18	Fuel fine filter (main circuit): number of units	А	1	-
19	Fuel fine filter (main circuit): number of elements per unit	А	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

 BL Reference value: fuel stop power

 Maximum engine power that cannot be run continuously on some applications (stabilization reserve)

 DL Reference value: continuous power

 Engine power that can be run continuously under standard conditions

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- Product Data -



Name Application Group Dataset 12V1600G10F 3B Ref. 25°C/-

Speed [rpm]	1500
Nominal power [kW]	524
Nominal power [bhp]	703
Frequency [Hz]	50

Exhaust Regulations NOx emission optimized ;

12. General operating data

				-
No.	Description	Index	Value	Unit
1	Cold start capability: air temperature	R	-20	°C
-	(w/o starting aid, w/o preheating) - (case A)	ix.	20	C
2	Additional condition (to case A):	R	-20	°C
2	engine coolant temperature	ĸ	20	-
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	R	-40	°C
,	(w/o starting aid, w/ preheating) - (case C)	ĸ	40	C
10	Additional condition (to case C):	R	32	°C
10	engine coolant temperature	к	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)		750	Nm
20	coolant temperature +5°C	R	750	INT
20	Breakaway torque (without driven machinery)		450	New
30	coolant temperature +40°C	R	450	Nm
20	Cranking torque at firing speed (without driven machinery)	_	100	
29	coolant temperature +5°C	R	400	Nm
24	Cranking torque at firing speed (without driven machinery)	_	270	
31	coolant temperature +40°C	R	270	Nm
00	Starting is blocked if the engine coolant temperature is		20	
96	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
	Engine coolant temperature before starting full-load operation, recommended		60	
44	min.	R	60	°C
48	Minimum continuous load	R	20	%
- 0	Engine mass moment of inertia		4.540	
50	(without flywheel)	R	1.548	kgm²
52	Standard flywheel mass moment of inertia	R	1.44	kgm²
1981	Block bending moment - SAE 0	R	3	kNm
1982	Block bending moment - SAE 1	R	3	kNm
F 4	Engine mass moment of inertia		2.000	
51	(with standard flywheel)	R	2.988	kgm²
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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 Maximum engine power that cannot be run continuously on some applications (stabilization reserve)

 DL Reference value: continuous power

 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
 Image: Applicable

 The module is not valid for this product type
 Image: Applicable

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Frequency [Hz]	50

Exhaust Regulations N

NOx emission optimized ;

13. Starting (electric)

101 0101				
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	R	400	А
3000	(at an engine speed of 100 rpm, SAE0)	n	400	A
3002	Power consumption per starter	R	540	А
3002	(at an engine speed of 100 rpm, SAE1)	n	5-0	A
2317	Internal resistance of power supply + line resistance per starter	Α	0.008	Ω
2318	Manufacturer		Prestolite	-
2319	Number of starter		1	-
2320	Starter electrically redundant		х	-
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	R	400	А
3001	(at an engine speed of 100 rpm, SAE0)	ĸ	400	А
3003	Power consumption per starter	R	540	
3003	(at an engine speed of 100 rpm, SAE1)	ĸ	540	А
2325	Internal resistance of power supply + line resistance per starter	А	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	R	400	
3251	(at an engine speed of 100 rpm, SAE0)	к	400	А
3252	Power consumption per starter	R	540	٥
3232	(at an engine speed of 100 rpm, SAE1)	ĸ	540	А
2333	Internal resistance of power supply + line resistance per starter	А	0.008	Ω
2347	Generally valid data for starter		х	-
2342	Rated starting-attempt Duration (at +20°C ambient temperature with battery	R	3	S
2343	Interval between starts	L	5	s
2343	(at rated starting-attempt duration), min.	L	5	5
2345	Maximum acceptable starting-attempt duration	L	15	s
2344	Interval between starts	R	60	s
2344	(when starting-attempt duration > rated starting-attempt duration)	N		3
2346	Starting attempts within 30 minutes	L	6	_
2340	(at +20°C ambient temperature with battery full), max.		Ĭ	

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

No.	Description		Index	Value	Unit

 BL
 Reference value: fuel stop power

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 DL
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Exhaust Regulations NOx emission optimized ;

	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
NU.				
1	Engine coolant capacity (without cooling equipment)	R	65	liter
11	On-engine fuel capacity	R	3 *	liter
	Engine oil capacity, initial filling			
14	(standard oil system)	R	72.5	liter
	(Option: max. operating inclinations)			
	Oil change quantity, max.			
20	(standard oil system)	R	64	liter
	(Option: max. operating inclinations)			
	Oil pan capacity, dipstick mark min.			
28	(standard oil system)	L	56	liter
	(Option: max. operating inclinations)			
	Oil pan capacity, dipstick mark max.			
29	(standard oil system)	L	64	liter
	(Option: max. operating inclinations)			

19. Masses / dimensions

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

20. Fan / fan cooler

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

21. Exhaust emissions

	No.	Description	Index	Value	Unit
--	-----	-------------	-------	-------	------

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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

 Will applicable Work applicable

 The module is not valid for this product type

 Work applicable

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Exhaust Regulations

NOx emission optimized ;

1047	Emissions data sheet:	ED\$16000100	
1947	"TA-Luft" - CP	EDS16000100	-

22. Acoustics

		1		,
No.	Description	Index	Value	Unit
	Exhaust noise, unsilenced - CP			
101	(free-field sound-pressure level Lp, 1m distance,	R	109	dB(A)
	ISO 6798, +3dB(A) tolerance)			
201	Exhaust noise, unsilenced - CP	R	121	dB(A)
	(sound power level LW, ISO 6798, +3dB(A) tolerance)	Index Value R 109 R 121 R 109 R 109 R 122 R 735163e R 102 R 102 R 120 R 100 R 101		
	Exhaust noise, unsilenced - FSP			
102	(free-field sound-pressure level Lp, 1m distance,	R	109	dB(A)
	ISO 6798, +3dB(A) tolerance)			
202	Exhaust noise, unsilenced - FSP	R	122	dB(A)
202	(sound power level LW, ISO 6798, +3dB(A) tolerance)	IX.		ub(A)
	Exhaust noise, unsilenced - CP			
103	(free-field sound-pressure level Lp, 1m distance,	R	735163e	_
105	ISO 6798)	IN I	/551050	_
	Spectrum No.			
	Exhaust noise, unsilenced - CP			
203	(sound power level LW, ISO 6798)	R	-	-
	Spectrum No.			
109	Engine surface noise with attenuated			
	intake noise (filter) - CP	D	102	
	(free-field sound-pressure level Lp, 1m distance,	к	102	dB(A)
	ISO 6798, +2dB(A) tolerance)			
	Engine surface noise with attenuated			
209	intake noise (filter) - CP	R	120	dB(A)
	(sound power level LW, ISO 6798, +2dB(A) tolerance)			
	Engine surface noise with attenuated			
111	intake noise (filter) - CP		7251560	
111	(free-field sound-pressure level Lp, 1m distance,	к	/351506	-
	ISO 6798) Spectrum No.			
	Engine surface noise with attenuated			
211	intake noise (filter) - CP	_		
211	(sound power level LW, ISO 6798)	к	-	-
	Spectrum No.			
	Engine surface noise with attenuated			
112	intake noise (intake silencer) - CP	-	100	
113	(free-field sound-pressure level Lp, 1m distance,	к	100	dB(A)
	ISO 6798, +2dB(A) tolerance)			
	Engine surface noise with attenuated			
	intake noise (intake silencer) - FSP		101	
114	(free-field sound-pressure level Lp, 1m distance,	R	101	dB(A)
	ISO 6798, +2dB(A) tolerance)			

 BL Reference value: fuel stop power

 Maximum engine power that cannot be run continuously on some applications (stabilization reserve)

 DL Reference value: continuous power

 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

Adequate verification not yet available (tolerance +/-10%)
^{an} Adequate verification not yet available (tolerance +/-5%)

A Design value
 Value required for the design of an external system
 (plant)
 Couldeline value
 for design purposes to a limited extent
 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

- Product Data -



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 NOx emission optimized ;

	Structure borne noise at engine mounting brackets in vertical direction above resilient engine mounts - CP Spectrum No.	R	735249e	-
	Structure borne noise at engine mounting brackets	D	735248e	
-	in vertical direction above resilient engine mounts - FSP Spectrum No.	к	7352488	-

 BL Reference value: fuel stop power

 Maximum engine power that cannot be run continuously on some applications (stabilization reserve)

 DL Reference value: continuous power

 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

Adequate verification not yet available (tolerance +/-10%)
^{an} Adequate verification not yet available (tolerance +/-5%)

A Design value
 Value required for the design of an external system
 (plant)
 Couldeline value
 information – only suitable
 for design purposes to a limited extent
 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