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# **Technical Sales Document** - Product Data -



Name 18V2000G76F

**Application Group** 3D

**Dataset** Ref. 25°C/-; Air charge air cooling Speed [rpm] 1500 Nominal power [kW] 1235 Nominal power [bhp] 1656 Frequency [Hz] 50

**Exhaust Regulations** Fuel-consumption optimized;

#### Reference conditions

No.	Description	Index	Value	Unit
6	Intake air temperature		25	°C
7	Charge-air coolant temperature		-	°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
43	Amendment history drawing No.		N	-
44	Amendment history drawing No.		N	
44	(cont.)		IV.	-
Q	Engine rated speed switchable		_	
0	(1500/1800 rpm)			_
13	Engine without sequential turbocharging		v	
13	(turbochargers without cut-in/cut-out control)		<b> </b> *	-
31	Engine with air-cooled charge air		X	-
61	Engine with water/charge air cooling			
01	(LT, on-engine)			

#### 1. Power-related data

No.	Description	Index	Value	Unit
1	Engine rated speed	Α	1500	rpm
4	Continuous power ISO 3046 (10% overload capability)	•		114/
4	(design power DIN 6280, ISO 8528)	A		kW
5	Fuel stop power ISO 3046	Α	1235	kW
0	Mean effective pressure (MEP)			la a sa
٥	(Continuous power ISO 3046)		_	bar
0	Mean effective pressure (MEP)		24.6	hau
9	(Fuel stop power ISO 3046)		24.6	bar

2. General Conditions (for maximum power)

No.	Description	Index	Value	Unit
46	Individual power calculation (ESCM)		v	
40	required for maximum power		^	-
1	Intake air depression (new filter)	А	15	mbar
2	Intake air depression, max.	L	40	mbar
3	Exhaust back pressure	А	30	mbar
4	Exhaust back pressure, max.	L	50	mbar
5	Fuel temperature at fuel feed connection	R	25	°C
٥	Fuel temperature at fuel feed connection, max.	ı	-	°C
9	(w/o power reduction)	L		C
10	Fuel temperature at fuel feed connection, max.	L	65	°C
49	Max. ambient temperature in direct vicinity			0.0
49	of vibration damper	L	-	C
18	Fuel temperature at fuel feed connection, min.	L	N	°C

#### 3. Consumption

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
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%)
AB Adequate verification not yet available (tolerance +/-5%)

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# **Technical Sales Document** - Product Data -



Name 18V2000G76F

**Application Group** 3D

Dataset Ref. 25°C/-; Air charge air cooling Speed [rpm] 1500 Nominal power [kW] 1235 Nominal power [bhp] 1656 Frequency [Hz] 50

**Exhaust Regulations** Fuel-consumption optimized;

No.	Description	Index	Value	Unit
	Specific fuel consumption (be) - 100 % CP			
17	(+ 5 %; EN 590; 42.8 MJ/kg)	R	-	g/kWh
10	Specific fuel consumption (be) - 75 % CP	_		
18	(+ 5 %; EN 590; 42.8 MJ/kg)	R	-	g/kWh
19	Specific fuel consumption (be) - 50 % CP			- /I->A/I-
19	(+ 5 %; EN 590; 42.8 MJ/kg)	R	[	g/kWh
20	Specific fuel consumption (be) - 25 % CP	R		g/kWh
20	(+ 5 %; EN 590; 42.8 MJ/kg)	ĸ	-	g/KVVII
21	Specific fuel consumption (be) - FSP	R		g/kWh
21	(+ 5 %; EN 590; 42.8 MJ/kg)	ĸ	-	g/KWII
56	Specific fuel consumption (be) - 100 % FSP	R	192	g/kWh
30	(+ 5 %; EN 590; 42.8 MJ/kg)	N	132	g/KVVII
57	Specific fuel consumption (be) - 75 % FSP	R	188	g/kWh
37	(+ 5 %; EN 590; 42.8 MJ/kg)	IN.	100	g/KVVII
58	Specific fuel consumption (be) - 50 % FSP	R	192	g/kWh
50	(+ 5 %; EN 590; 42.8 MJ/kg)	IX.		
59	Specific fuel consumption (be) - 25 % FSP	R	217	g/kWh
	(+ 5 %; EN 590; 42.8 MJ/kg)			<u>.</u>
73	No-load fuel consumption	R	15	kg/h
	Lube oil consumption after 100 h of operation			
	(B = fuel consumption per hour)			
92	Guideline value does not apply for the design	R	0.35	% of B
	of EGAT systems. Please consult the Applications			
	Center with regard to the layout of EGA systems.			
62	Lube oil consumption after 100 h of operation, max.	L	0.8	% of B
02	(B = fuel consumption per hour)	L	0.0	70 OI B

4 Model-related data (basic design)

4. IVIO	dei-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		18	-
7	Cylinder configuration: V angle		90	degrees (°)
10	Bore		135	mm
11	Stroke		156	mm
12	Displacement, cylinder		2.233	liter
13	Displacement, total		40.2	liter
14	Compression ratio		17.5	-
40	Cylinder heads: single-cylinder		X	-
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	-
16	Number of L.P. turbochargers		-	-
17	Number of H.P. turbochargers		-	-
18	Number of intercoolers		1	-
19	Number of L.P. intercoolers		-	-
20	Number of H.P. intercoolers		-	-

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%)
AB Adequate verification not yet available (tolerance +/-5%)

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# **Technical Sales Document** - Product Data -



Speed [rpm] Name 18V2000G76F 1500 **Application Group** Nominal power [kW] 3D 1235 Dataset Ref. 25°C/-; Air charge air cooling Nominal power [bhp] 1656 Frequency [Hz] 50

**Exhaust Regulations** Fuel-consumption optimized;

	· · · · · · · · · · · · · · · · · · ·			
28	Standard flywheel housing flange (engine main PTO)		0	SAE
F0	Static bending moment at standard		N	Lablace
50	flywheel housing flange, max.	L	N	kNm
Г1	Dynamic bending moment at standard		N	LANIMA
51	flywheel housing flange, max.	L	N	kNm
43	Flywheel interface (DISC)		18"	-
46	Engine mass diagram, drawing No.		N	-
47	Engine mass diagram, drawing No. (cont.)		N	-

#### 5. Combustion air / exhaust gas

	madelien an , exhauet gue			
No.	Description	Index	Value	Unit
33	Charge-air flow through external air-to-air intercooler	Α	N	m³/s
34	Charge-air temperature before external	^	230	°C
34	air-to-air intercooler	A	230	C
35	Charge-air temperature after external		60	°C
33	air-to-air intercooler	Α	00	
36	Charge-air temperature after external		75	°C
30	air-to-air intercooler, max.	L	75	C
37	Charge-air temperature after external		10	°C
37	air-to-air intercooler, min.	-	10	
39	Pressure differential in external		130	mbar
33	air-to-air intercooler, max.	L	130	IIIDai
8	Charge-air pressure before cylinder - CP	R	-	bar abs
27	Charge-air pressure before cylinder - FSP	R	3.8	bar abs
9	Combustion air volume flow - CP	R	-	m³/s
10	Combustion air volume flow - FSP	R	1.51	m³/s
11	Exhaust volume flow (at exhaust temperature) - CP	R	-	m³/s
12	Exhaust volume flow (at exhaust temperature) - FSP	R	3.95	m³/s
17	Exhaust temperature after engine - CP	R	-	°C
18	Exhaust temperature after engine - FSP	R	495	°C
58	Exhaust temperature after engine (turbocharger), max.	L	650	°C

## 6. Heat dissipation

No.	Description	Index	Value	Unit
60	Heat dissipated by engine coolant - CP	R		134/
60	(high-temperature circuit)	K	-	kW
61	Heat dissipated by engine coolant - CP	R		LAM
01	(low-temperature circuit)	IN .		kW
62	Heat dissipated by engine coolant - FSP	R	475	kW
02	(high-temperature circuit)		473	
63	Heat dissipated by engine coolant - FSP	6		LAAZ
03	(low-temperature circuit)	R	-	kW
26	Charge-air heat dissipation - CP	R	-	kW
27	Charge-air heat dissipation - FSP	R	285	kW
31	Heat dissipated by return fuel flow - CP	R	-	kW
32	Heat dissipated by return fuel flow - FSP	R	4.52	kW
33	Radiation and convection heat, engine - CP	R	-	kW
34	Radiation and convection heat, engine - FSP	R	45	kW

## 7. Coolant system (high-temperature circuit)

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

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
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%)

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# **Technical Sales Document** - Product Data -



Speed [rpm] Name 18V2000G76F 1500 **Application Group** Nominal power [kW] 3D 1235 Dataset Ref. 25°C/-; Air charge air cooling Nominal power [bhp] 1656 Frequency [Hz] 50

**Exhaust Regulations** Fuel-consumption optimized;

17	Coolant temperature		100	*6
17	(at engine outlet to cooling equipment)	A	100	l°C
20	Coolant temperature after engine, limit 1	L	102	°C
21	Coolant temperature after engine, limit 2	L	105	°C
25	Coolant antifreeze content, max.	L	50	%
30	Cooling equipment: coolant flow rate	А	46.3	m³/h
35	Coolant pump: inlet pressure, min.	L	0.4	bar
36	Coolant pump: inlet pressure, max.	L	1.5	bar
41	Pressure loss in off-engine cooling system, max.	L	1.0	bar
72	Pressure loss in off-engine cooling system, min.	L	0.3	bar
47	Breather valve (expansion tank)	D	1.0	la a u
47	opening pressure (excess pressure)	R	1.0	bar
54	Cooling equipment: height above engine, max.	L	20	m
50	Thermostat, starts to open	R	79	°C

8. Coolant system (low-temperature circuit)

No.	Description	Index	Value	Unit
0	Coolant temperature before intercooler	^		°C
9	(at engine inlet from cooling equipment)	А		C
13	Coolant antifreeze content, max.	L	-	%
17	Charge-air temperature after intercooler, max.	L	-	°C
76	Temperature differential between intake air and	_		V
70	charge-air coolant before intercooler	А		K
20	Cooling equipment: coolant flow rate	Α	-	m³/h
24	Coolant pump: inlet pressure, min.	L	-	bar
25	Coolant pump: inlet pressure, max.	L	-	bar
29	Pressure loss in off-engine cooling system, max.	L	-	bar
62	Pressure loss in off-engine cooling system, min.	L	-	bar
43	Cooling equipment: height above engine, max.	L	-	m
36	Breather valve (expansion tank)	R	_	har
30	opening pressure (excess pressure)	K		bar
39	Thermostat, starts to open	R	-	°C

### 10. Lube oil system

No.	Description	Index	Value	Unit
1	Lube oil operating temp. before engine, from	R	75	°C
2	Lube oil operating temp. before engine, to	R	100	°C
5	Lube oil temperature before engine, limit 1	L	103	°C
6	Lube oil temperature before engine, limit 2	L	105	°C
8	Lube oil operating press. bef. engine, from	R	6.0	bar
9	Lube oil operating press. bef. engine, to	R	8.0	bar
10	Lube oil pressure before engine, alarm	L	4.5	bar
11	Lube oil pressure before engine, shutdown	L	4.0	bar
19	Lube oil fine filter (main circuit):		1	
19	number of units		1	-
20	Lube oil fine filter (main circuit):		2	
20	number of elements per unit		3	-
32	Lube oil fine filter (main circuit):		1.0	ha
32	pressure differential, max.	L	1.0	bar

#### 11. Fuel system

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%)
AB Adequate verification not yet available (tolerance +/-5%)

## Edition 2019/4/18 Page 5 / 9

# **Technical Sales Document** - Product Data -



Speed [rpm] Name 18V2000G76F 1500 **Application Group** Nominal power [kW] 3D 1235 Dataset Ref. 25°C/-; Air charge air cooling Nominal power [bhp] 1656 Frequency [Hz] 50

**Exhaust Regulations** Fuel-consumption optimized;

_	r del-consumption optimized,				
No.	Description	Index	Value	Unit	
3307	Fuel pressure at fuel feed connection, min.		0.5	la a sa a la a	
3307	(when engine is starting), absolute pressure	L .	0.5	bar abs	
3308	Fuel pressure at fuel feed connection, min.		0.5	har abs	
3306	(when engine is running), absolute pressure	L	0.5	bar abs	
3309	Fuel pressure at fuel feed connection, max.		1.5	har abs	
3309	(when engine is starting), absolute pressure	L		bar abs	
3310	Fuel pressure at fuel feed connection, max. (permanent), absolute pressure	L	1.0	bar abs	
3311	Fuel pressure at fuel feed connection, specification		XZ54407000001	-	
37	Fuel supply flow, max.	Α	25	liter/min	
8	Fuel return flow, max.	Α	25	liter/min	
10	Fuel pressure at return connection on engine, max.	L	0.5	bar	
13	Fuel temperature differential before/after engine, max.	L	15	K	
18	Fuel fine filter (main circuit): number of units	Α	1	-	
19	Fuel fine filter (main circuit): number of elements per unit	Α	5	-	
	Fuel fine filter (main circuit): particle retention	Α	0.005	mm	
21	Fuel fine filter (main circuit): pressure differential, max.	L	1.0	bar	

12. General operating data

No.	Description	Index	Value	Unit
1	Cold start capability: air temperature	R	0	°C
1	(w/o starting aid, w/o preheating) - (case A)	K	O	
22	Coolant preheating, preheating temperature, min.	L	32	°C
3506	Coolant preheating, preheating temperature, max.	L	55	°C
28	Breakaway torque (without driven machinery)	В		Nm
20	coolant temperature +5°C	R	-	INIII
30	Breakaway torque (without driven machinery)	D		Nm
30	coolant temperature +40°C	R	[	INTI
29	Cranking torque at firing speed (without driven machinery)	0		Nimo
	coolant temperature +5°C	R	-	Nm
24	Cranking torque at firing speed (without driven machinery)			NI
31	coolant temperature +40°C	R	-	Nm
00	Starting is blocked if the engine coolant temperature is		-20	°C
96	below			٠.
37	High idling speed, max. (static)	L	1660	rpm
38	Limit speed for overspeed alarm / emergency shutdown	L	1800	rpm
42	Firing speed, from	R	100	rpm
43	Firing speed, to	R	120	rpm
44	Engine coolant temperature before starting full-load operation, recommended	R	40	°C
44	min.	K	40	C
48	Minimum continuous load	R	20	%
49	Extended low or no-load operation possible		X	
49	(consultation required)		^	-
50	Engine mass moment of inertia	0	4.24	12
50	(without flywheel)	R	4.24	kgm²
52	Standard flywheel mass moment of inertia	R	2.99	kgm²
1981	Block bending moment - SAE 0	R	N	kNm
69	Speed droop (with electronic governor) adjustable, from	R	0	%
70	Speed droop (with electronic governor) adjustable, to	R	5	%

#### 13. Starting (electric)

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

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

Applicable
The module is valid for this product type

Non-applicable
Walter to 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%)
AB Adequate verification not yet available (tolerance +/-5%)

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# **Technical Sales Document** - Product Data -



Speed [rpm] Name 18V2000G76F 1500 **Application Group** Nominal power [kW] 1235 Dataset Ref. 25°C/-; Air charge air cooling Nominal power [bhp] 1656 Frequency [Hz] 50

Exhaust Pogulatio

Exhaust	Regulations Fuel-consumption optimized;			
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	Α
2316	Power consumption per starter	R	720	Α
2310	(at an engine speed of 100 rpm)	N	720	A
3000	Power consumption per starter	R		Α
3000	(at an engine speed of 100 rpm, SAE0)	IX		A
3002	Power consumption per starter	R		Α
3002	(at an engine speed of 100 rpm, SAE1)	N		A
2317	Internal resistance of power supply + line resistance per starter	Α	0.008	Ω
2318	Manufacturer		PRESTOLITE	-
2319	Number of starter		2	-
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	Α
2324	Power consumption per starter	R	720	А
2324	(at an engine speed of 100 rpm)	11	720	^
3001	Power consumption per starter	R	_	Α
3001	(at an engine speed of 100 rpm, SAE0)	1		^
3003	Power consumption per starter	R		Α
3003	(at an engine speed of 100 rpm, SAE1)	IX		A
2325	Internal resistance of power supply + line resistance per starter	Α	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
	(at rated starting-attempt duration), min.	_		3
2345	Maximum acceptable starting-attempt duration	L	15	S
2344	Interval between starts	R	60	s
4J44	(when starting-attempt duration > rated starting-attempt duration)	n	00	3
2346	Starting attempts within 30 minutes	L	6	
2340	(at +20°C ambient temperature with battery full), max.	L		

#### 15. Starting (pneumatic/oil pressure starter)

No.	Description	Index	Value	Unit
36	Pneumatic starter: make TDI		X	-
5	Starting air pressure before starter motor, min.	R	8	bar
6	Starting air pressure before starter motor, max.	R	9	bar
7	Starting air pressure before starter motor, min.	L	8	bar
8	Starting air pressure before starter motor, max.	L	9	bar
18	Start attempt duration (engine preheated)	R	3	S
19	Start attempt duration (engine not preheated)	R	5	S
20	Start attempt duration, max.	L	-	S
	Air consumption/start attempt			3
114	(engine preheated)		1.1	
	Engine without generator	R	1.1	m³n
	Control with engine controller			

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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%)
AB Adequate verification not yet available (tolerance +/-5%)

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# **Technical Sales Document** - Product Data -



Speed [rpm] Name 18V2000G76F 1500 **Application Group** Nominal power [kW] 1235 Dataset Ref. 25°C/-; Air charge air cooling Nominal power [bhp] 1656 Frequency [Hz] 50

Full access December 2

Exhaust	Exhaust Regulations Fuel-consumption optimized;			
	Air consumption/start attempt			
115	(engine not preheated)	R	1.2	m³n
113	Engine without generator	l'N	1.2	
	Control with engine controller			
116	Air consumption with external control	R	0.6	m³n
110	for air-starter (per second	K	0.8	m·n
23	Starting air tank for 3 start attempts	R		liter
23	(max. 40 bar) (engine preheated)	N		iitei
24	Starting air tank for 3 start attempts	R	_	liter
24	(max. 30 bar) (engine preheated)	I.		iitei
25	Starting air tank for 6 start attempts	R		liter
23	(max. 40 bar) (engine preheated)	N		iitei
26	Starting air tank for 6 start attempts	R	_	liter
20	(max. 30 bar) (engine preheated)	IX		iitei
27	Starting air tank for 10 start attempts	R	-	liter
	(max. 40 bar) (engine preheated)	11		
28	Starting air tank for 10 start attempts	R		liter
20	(max. 30 bar) (engine preheated)	11		iitei
29	Starting air tank for 3 start attempts	R	N	liter
23	(max. 40 bar) (engine not preheated)	11	· ·	iitei
30	Starting air tank for 3 start attempts	R	N	liter
30	(max. 30 bar) (engine not preheated)	11		iitei
31	Starting air tank for 6 start attempts	R	N	liter
31	(max. 40 bar) (engine not preheated)	11		iitei
32	Starting air tank for 6 start attempts	R	N	liter
32	(max. 30 bar) (engine not preheated)	11		iitei
33	Starting air tank for 10 start attempts	R	N	liter
33	(max. 40 bar) (engine not preheated)	11		iitei
34	Starting air tank for 10 start attempts	R	N	liter
J4	(max. 30 bar) (engine not preheated)	11		iitei

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

No.	Description	Index	Value	Unit
	Longitudinal inclination, continuous max.			
15	driving end down	L	5	degrees (°)
	(Option: max. operating inclinations)			
	Longitudinal inclination, continuous max.			
17	driving end up	L	5	degrees (°)
	(Option: max. operating inclinations)			
19	Transverse inclination, continuous max.		10	degrees (°)
19	(Option: max. operating inclinations)	L		uegrees ( )

#### 18. Capacities

No.	Description	Index	Value	Unit
1	Engine coolant capacity (without cooling equipment)	R	73	liter
10	Intercooler coolant capacity	R	-	liter
11	On-engine fuel capacity	R	7	liter
	Engine oil capacity, initial filling			
14	(standard oil system)	R	122	liter
	(Option: max. operating inclinations)			

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

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
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

Adequate verification not yet available (tolerance +/-10%)
AB Adequate verification not yet available (tolerance +/-5%)

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# **Technical Sales Document** - Product Data -



Speed [rpm] Name 18V2000G76F 1500 **Application Group** Nominal power [kW] 3D 1235 Dataset Ref. 25°C/-; Air charge air cooling Nominal power [bhp] 1656 Frequency [Hz] 50

**Exhaust Regulations** Fuel-consumption optimized;

	raci consamption optimized,			
	Oil change quantity, max. (standard oil system)	R	110	liter
	(Option: max. operating inclinations)			
170174	Oil pan capacity, dipstick mark min.	R	92	liter
	(standard oil system)	.,		
2025	Oil pan capacity, dipstick mark max.	R	102	liter
2023	(standard oil system)	11	102	iitei

#### 19. Masses / dimensions

No.	Description	Index	Value	Unit
	Engine mass, dry			
9	(basic engine configuration acc. to	R	3320	kg
	scope of supply specification)			
10	Engine mass, wet			
	(basic engine configuration acc. to	R	3565	kg
	scope of supply specification)			

#### 20. Fan / fan cooler

No.	Description	Index	Value	Unit
1	Standard design		-	-
3	Fan, pusher-type		X	-
9	Fan drive: mechanical via V-belt		x	-
13	Fan: speed	R	N	rpm

## 21. Exhaust emissions

No.	Description	Index	Value	Unit
2005	Emissions data sheet:			
	NEA Singapore for ORDE			-
1959	Emissions data sheet:			
1939	US EPA Tier 4i			
2052	Emissions data sheet:			
2052	MoEF India / CPCB Stage II		-	-
1972	Emissions data sheet:		EDS2000-0432	
	Fuel-consumption optimized		ED32000-0432	_

#### 22. Acoustics

22. 7	oustics			
No.	Description	Index	Value	Unit
	Exhaust noise, unsilenced - CP			
101	(free-field sound-pressure level Lp, 1m distance,	R	116	dB(A)
	ISO 6798, +3dB(A) tolerance)			
201	Exhaust noise, unsilenced - CP		130	dB(A)
201	(sound power level LW, ISO 6798, +3dB(A) tolerance)	ower level LW, ISO 6798, +3dB(A) tolerance)	129	
103	Exhaust noise, unsilenced - CP		736773e	-
	(free-field sound-pressure level Lp, 1m distance,	<b>D</b>		
	ISO 6798)	R		
	Spectrum No.			

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

Applicable
The module is valid for this product type

Non-applicable
Walter to 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%)

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# **Technical Sales Document** - Product Data -



Speed [rpm] Name 18V2000G76F 1500 **Application Group** Nominal power [kW] 3D 1235 Dataset Ref. 25°C/-; Air charge air cooling Nominal power [bhp] 1656 Frequency [Hz] 50

**Exhaust Regulations** Fuel-consumption optimized:

	Fuel-consumption optimized,			
109	Engine surface noise with attenuated intake noise (filter) - CP (free-field sound-pressure level Lp, 1m distance, ISO 6798, +2dB(A) tolerance)	R	103	dB(A)
209	Engine surface noise with attenuated intake noise (filter) - CP (sound power level LW, ISO 6798, +2dB(A) tolerance)	R	121	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	736609e	-

## 23. TBO and load profile (case A)

No.	Description	Index	Value	Unit
140.	TBO (Time between Overhaul)	ilidex	value	Offic
1	· · · · · · · · · · · · · · · · · · ·	L	9000	h
	(related to standard load profile (Pn,tn))			
22	P1 (percent load related to CP)	R	100	%
3	t1 (percentage of operating time)	R	5	%
24	P2 (percent load related to CP)	R	85	%
5	t2 (percentage of operating time)	R	95	%
26	P3 (percent load related to CP)	R	-	%
7	t3 (percentage of operating time)	R	-	%
28	P4 (percent load related to CP)	R	-	%
9	t4 (percentage of operating time)	R	-	%
30	P5 (percent load related to CP)	R	-	%
18	t5 (percentage of operating time)	R	-	%
11	Mean utilization rate (percentage of rated power)	R	<85	%
12	Number of load changes/hour, type I		2	
	(< 10% to >90% load)	R		-
13	Number of load changes/hour, type II		2	
	(< 10% to between 70% and 90% load)	R		-
15	Maintenance schedule No.		N	-
16	Maintenance schedule No. (cont.)		N	-

Actual value must be greater than specified value
Actual value must be less than specified value

Applicable
The module is valid for this product type

Non-applicable
Walter to 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%)
AB Adequate verification not yet available (tolerance +/-5%)