

PERFORMANCES

RATINGS		50 Hz		60 Hz	
		PRIME	STAND-BY	PRIME	STAND-BY
Rated output	kWm	114	132	127	140

Ratings in accordance with ISO 8528 - Standard reference conditions : 25°C air inlet temperature ; 1000 mbar ; 30% relative humidity - Power factor 0.8

PRIME POWER

The Prime Power is the maximum power available with varying loads for an unlimited number of hours. The average power output during a 24 h period of operation must not exceed 80% of the declared prime power between the prescribed maintenance intervals and at standard environmental conditions. A 10% overload is permissible for 1 hour every 12 hours of operation.

STAND-BY POWER

This is the maximum power available for a period of 500 hours/year with a mean load factor of 90% of the declared stand-by power. No kind of overload is permissible for this use.

TECHNICAL DATA

Engine model	806 ISRi26		Cooling system	liquid (water + 50% Parafllu 11)
Diesel 4 stroke - Injection type	direct		Lube oil specifications	ACEA E3-API CF4/MILL2104E/F
N° of cylinders	6 in line		Lube oil consumption	< 0.3% of fuel consumption
Total displacement	L	5.9	Fuel specifications	EN 590
Bore x Stroke	mm	104 x 115	Speed governor	electronic (G3 class)
Compression ratio	18 : 1		Engine rotating mass moment of inertia	kg.m ² 1.173
Aspiration	turbocharged aftercooled		Flywheel housing / Flywheel	SAE3 / 11" ½

TECHNICAL DATA

	RPM	1500	1800	
BMEP	kPa	1549	1441	
Fuel consumption at :	100% load	l/h	28.3	32.1
	75% load	l/h	22.2	24.6
	50% load	l/h	15.7	17.4

AIR INDUCTION SYSTEM

Intake air flow.	m ³ /h	410	580
Maximum suggested intake restriction :			
	with clean air filter	kPa	2.45
	with dirty air filter	kPa	4.9

INJECTION

Injection system		mechanical	
Max speed drop steady conditions		isochronous	
Max fuel feed pump suction head	m	0.8	

EXHAUST SYSTEM

Exhaust gas flow	kg/h	505	710
Max exhaust temperature at full load (at 25°C - after turbine)	°C	550	520
Max allowable exhaust backpressure	kPa	4.9	

COOLING SYSTEM

Coolant capacity :	engine only	liters	~ 11.5	
	engine + radiator	liters	~ 21.5	
Cooling water flow rate	l/min	100	135	
Max allowable pressure drop on external water circuit	Pa	9.8	10	
Pusher fan air flow	m ³ /s	3.2	5.0	
Pusher fan head (static)	Pa	392		
Pusher fan absorbed power	kW	2.6	4.0	
Max engine outlet water temperature (Alarm)	°C	100		
ATB (without canopy) - nominal rating	°C	50		

No remote cooling radiator allowed

LUBRICATION SYSTEM

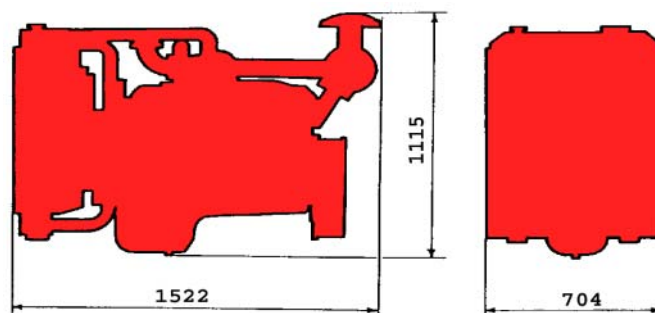
Lube oil total system incl. sump, filters etc.	kg (l)	~ 11.5 (12.7)	
Oil capacity of standard sump :			
	at min. level	kg (l)	~ 5.5(6.0)
	at max level	kg (l)	~ 9.0 (10)
Maximum oil temperature	°C	120	
Oil pressure (min/max)	kPa	196	

	RPM	1500	1800
HEAT REJECTION (at full load conditions)			
Engine to coolant (water + oil)	kcal/kWh	483	430
Engine to exhaust	kcal/kWh	635	740
Radiated to ambient	kcal/kWh	46	30
Engine supercharged air to coolant	kcal/kWh	79	85

ELECTRIC STARTING SYSTEM

Cranking motor rating	kW	4	
Auxiliary voltage	Vcc	12	
Battery-charge alternator	A	45	
Starting batteries :			
	Recommended capacity	Ah	100
	Discharge current	A	650

DIMENSIONS AND WEIGHTS



Engine dry weight, standard configuration

kg 590

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 Specifications subject to change without notice
 Illustrations may include optional equipment.

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