

PERFORMANCES

RATINGS		50 Hz		60 Hz	
		PRIME	STAND-BY	PRIME	STAND-BY
Rated output	kWm	36	41	43	48

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	8041i06		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	4 in line		Lube oil consumption	< 0.3% of fuel consumption
Total displacement	L	3.9	Fuel specifications	EN 590
Bore x Stroke	mm	104 x 115	Speed governor	mechanical (G2 class)
Compression ratio	17 : 1		Engine rotating mass moment of inertia	kg.m ² 0.967
Aspiration	natural		Flywheel housing / Flywheel	SAE3 / 11" ½

TECHNICAL DATA

	RPM	1500	1800	
BMEP	kPa	696	726	
Fuel consumption at :	100% load	l/h	9.9	11.9
	75% load	l/h	7.3	9.0
	50% load	l/h	5.2	6.2

AIR INDUCTION SYSTEM

Intake air flow.	m ³ /h	165	195
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		4%	
Max fuel feed pump suction head	m	0.8	

EXHAUST SYSTEM

Exhaust gas flow	kg/h	195	235
Max exhaust temperature at full load (at 25°C - after turbine)	°C	530	550
Max allowable exhaust backpressure	kPa	14.7	

COOLING SYSTEM

Coolant capacity :	engine only	liters	~ 7	
	engine + radiator	liters	~ 14	
Cooling water flow rate	l/min	87	107	
Max allowable pressure drop on external water circuit	Pa	5.9	9.8	
Max head of cooling radiator	m	3		
Pusher fan air flow	m ³ /s	0.6	1	
Pusher fan head (static)	Pa	294		
Pusher fan absorbed power	kW	0.37	0.55	
Max engine outlet water temperature (Alarm)	°C	100		
ATB (without canopy) - nominal rating	°C	50		

LUBRICATION SYSTEM

Lube oil total system incl. sump, filters etc.	kg (l)	~ 7.7 (8.5)	
Oil capacity of standard sump :			
	at min. level	kg (l)	~ 4.7 (5.2)
	at max level	kg (l)	~ 6.7 (7.4)
Maximum oil temperature	°C	120	
Oil pressure (min/max)	kPa	196	

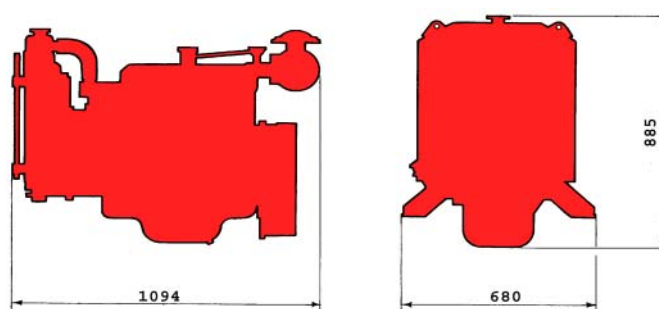
HEAT REJECTION (at full load conditions)

		RPM	1500	1800
Engine to coolant (water + oil)	kcal/kWh	605	610	
Engine to exhaust	kcal/kWh	675	710	
Radiated to ambient	kcal/kWh	185	190	

ELECTRIC STARTING SYSTEM

Cranking motor rating	kW	3		
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 415

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