

PERFORMANCES

RATINGS		50 Hz		60 Hz	
		PRIME	STAND-BY	PRIME	STAND-BY
Rated output	kWm	56	62	63	69

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 i06		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	mechanical (G2 class)
Compression ratio	18 : 1		Engine rotating mass moment of inertia	kg.m ² 1.179
Aspiration	natural		Flywheel housing / Flywheel	SAE3 / 11" ½

TECHNICAL DATA

	RPM	1500	1800	
BMEP	kPa	755	716	
Fuel consumption at :	100% load	l/h	15.1	17.1
	75% load	l/h	11.4	13.4
	50% load	l/h	8.2	9.7

AIR INDUCTION SYSTEM

Intake air flow.	m ³ /h	240	290
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	290	360
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	~ 10
	engine + radiator	liters	~ 18,5
Cooling water flow rate	l/min	85	105
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	0.9	1.3
Pusher fan head (static)	Pa	294	
Pusher fan absorbed power	kW	1	1.6
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)	~ 10 (11)
Oil capacity of standard sump :		
at min. level	kg (l)	~ 6 (6.6)
at max level	kg (l)	~ 8.1 (8.9)
Maximum oil temperature	°C	120
Oil pressure (min/max)	kPa	196

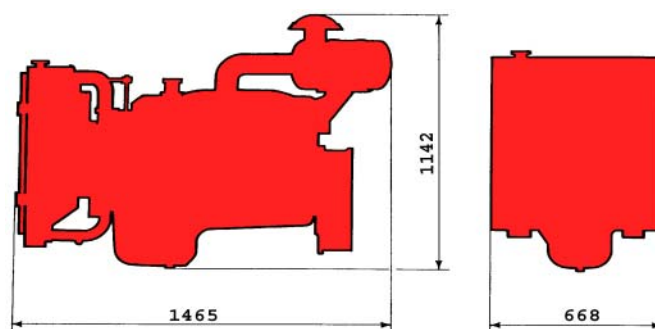
HEAT REJECTION (at full load conditions)

	kcal/kWh	560	563
Engine to coolant (water + oil)			
Engine to exhaust	kcal/kWh	650	650
Radiated to ambient	kcal/kWh	205	203

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 560

Local distributor