

## PERFORMANCES

RATINGS		50 Hz		60 Hz	
		PRIME	STAND-BY	PRIME	STAND-BY
<b>Rated output</b>	<b>kWm</b>	<b>306</b>	<b>337</b>	<b>313</b>	<b>344</b>

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	8210SRi27		Cooling system	liquid (water + 50% Parafllu I I)
Diesel 4 stroke - Injection type	direct		Lube oil specifications	ACEA E3-API CF4/MILL2104E/F
N° of cylinders	6 in line		Lube oil consumption	< 0.5% of fuel consumption
Total displacement	L	13.8	Fuel specifications	EN 590
Bore x Stroke	mm	137 x 156	Speed governor	electronic (G3 class)
Compression ratio	16.5 : 1		Engine rotating mass moment of inertia	kg.m <sup>2</sup> 3.928
Aspiration	turbocharged aftercooled		Flywheel housing / Flywheel	SAE I / 14"

## TECHNICAL DATA

	RPM	1500	1800	
BMEP	kPa	1765	1510	
Fuel consumption at :	100% load	l/h	74.1	80.7
	75% load	l/h	56.1	61.4
	50% load	l/h	38.7	44.5

### AIR INDUCTION SYSTEM

Intake air flow.	m <sup>3</sup> /h	1600	1830
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	1950	2210
Max exhaust temperature at full load (at 25°C - after turbine)	°C	500	470
Max allowable exhaust backpressure	kPa	4.9	

### COOLING SYSTEM

Coolant capacity : engine only	liters	~ 30	
	engine + radiator	liters	~ 85
Cooling water flow rate	l/min	361	433
Max allowable pressure drop on external water circuit	Pa	9.8	10
Pusher fan air flow	m <sup>3</sup> /s	5.7	8.0
Pusher fan head (static)	Pa	490	
Pusher fan absorbed power	kW	12	24
Max engine outlet water temperature (Alarm)	°C	98	
ATB (without canopy) - nominal rating	°C	55	

**No remote cooling radiator allowed**

### LUBRICATION SYSTEM

Lube oil total system incl. sump, filters etc.	kg (l)	~ 25 (27.5)	
Oil capacity of standard sump :			
at min. level	kg (l)	~ 12 (13.2)	
at max level	kg (l)	~ 20 (22)	
Maximum oil temperature	°C	120	
Oil pressure (min/max)	kPa	196	

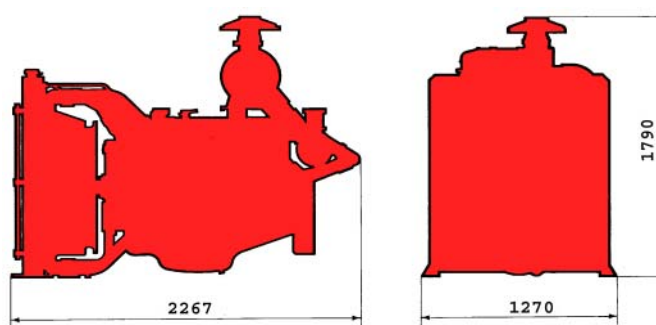
### HEAT REJECTION (at full load conditions)

	kcal/kWh	330	350
Engine to coolant (water + oil)			
Engine to exhaust		660	735
Radiated to ambient		60	50
Engine supercharged air to coolant		144	160

### ELECTRIC STARTING SYSTEM

Cranking motor rating	kW	6.6	
Auxiliary voltage	Vcc	24	
Battery-charge alternator	A	30	
Starting batteries :			
Recommended capacity	Ah	2 x 155	
Discharge current	A	660	

## DIMENSIONS AND WEIGHTS



Engine dry weight, standard configuration

kg 1410

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

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