

PERFORMANCES

RATINGS		50 Hz		60 Hz	
		PRIME	STAND-BY	PRIME	STAND-BY
Rated output	kWm	390	430	400	440

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	828 ISRi27		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	V 8		Lube oil consumption	< 0.5% of fuel consumption
Total displacement	L	17.2	Fuel specifications	EN 590
Bore x Stroke	mm	145 x 130	Speed governor	electronic (G3 class)
Compression ratio	16 : 1		Engine rotating mass moment of inertia	kg.m ² 4.012
Aspiration	turbocharged aftercooled		Flywheel housing / Flywheel	SAE I / 14"

TECHNICAL DATA

	RPM	1500	1800	
BMEP	kPa	1814	1549	
Fuel consumption at :	100% load	l/h	96.8	103.6
	75% load	l/h	71.9	75.9
	50% load	l/h	49.1	52.5

AIR INDUCTION SYSTEM

Intake air flow.	m ³ /h	1840	2210
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	2220	2650
Max exhaust temperature at full load (at 25°C - after turbine)	°C	490	440
Max allowable exhaust backpressure	kPa	4.9	

COOLING SYSTEM

Coolant capacity :	engine only	liters	~ 25
	engine + radiator	liters	~ 75
Cooling water flow rate	l/min	400	500
Max allowable pressure drop on external water circuit	Pa	9.8	10
Pusher fan air flow	m ³ /s	5.8	9.7
Pusher fan head (static)	Pa	490	
Pusher fan absorbed power	kW	13.8	22.5
Max engine outlet water temperature (Alarm)	°C	98	
ATB (without canopy) - nominal rating	°C	50	

No remote cooling radiator allowed

LUBRICATION SYSTEM

Lube oil total system incl. sump, filters etc.	kg (l)	~ 33 (36.5)	
Oil capacity of standard sump :			
	at min. level	kg (l)	~ 16 (17.5)
	at max level	kg (l)	~ 24 (26.4)
Maximum oil temperature	°C	120	
Oil pressure (min/max)	kPa	343	

	RPM	1500	1800
--	-----	------	------

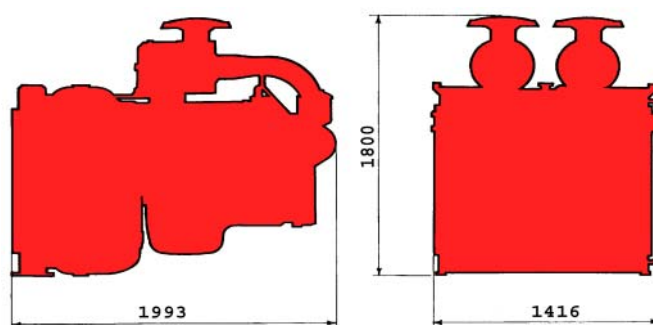
HEAT REJECTION (at full load conditions)

Engine to coolant (water + oil)	kcal/kWh	380	390
Engine to exhaust	kcal/kWh	640	670
Radiated to ambient	kcal/kWh	60	85
Engine supercharged air to coolant	kcal/kWh	140	180

ELECTRIC STARTING SYSTEM

Cranking motor rating	kW	6.6	
Auxiliary voltage	Vcc	24	
Battery-charge alternator	A	55	
Starting batteries :			
	Recommended capacity	Ah	2 x 155
	Discharge current	A	660

DIMENSIONS AND WEIGHTS



Engine dry weight, standard configuration

kg 1630

Local distributor



www.ivecomotors.com

