

GENSET ENGINE

NEF 6TA GE

PRELIMINARY

COMMON RAIL



PERFORMANCES

RATINGS		50 Hz		60 Hz	
		PRIME	STAND-BY	PRIME	STAND-BY
Rated output	kW	175	193	195	215

PRIME POWER

Applicable for supplying power in lieu of commercially purchased power. Prime power is the maximum power available at variable load for an unlimited running time.

A 10% overload capacity is available for governing purposes only.

STAND-BY POWER

Applicable for supplying emergency power for the duration of the utility power outage.

No overload capability is available for this rating.

TECHNICAL DATA

Engine model	NEF 6TA GE		Cooling system	liquid (water + 50% Parafllu I I)	
Diesel 4 stroke - Injection type	Unijet C.R.		Lube oil specifications	ACEA E3 - E5	
N° of cylinders	6 in line		Lube oil consumption	< 0.1% of fuel consumption	
Total displacement	L	5.9	Fuel specifications	EN 590	
Bore x Stroke	mm	102 x 120	Speed governor	electronic (G3 class)	
Compression ratio	15.8 : 1		Engine rotating mass moment of inertia	kg.m ²	0.96
Aspiration	turbocharged aftercooled		Dry weight (standard configuration)	kg	~ 630

TECHNICAL DATA

	RPM	1500	1800
Engine rotation (viewed facing flywheel)		CCW	
Flywheel housing / Flywheel		SAE3 / 11" ½	
Fuel consumption at : 100% load	l/h	42	46.5

AIR INDUCTION SYSTEM

	m ³ /h	640	810
Intake air flow.			
Maximum suggested intake restriction :			
with clean air filter	mmH ₂ O	250	
with dirty air filter	mmH ₂ O	500	

INJECTION

Injection system	Common Rail		
Max speed drop steady conditions	isochronous		
Max fuel feed pump suction head	m	3	

EXHAUST SYSTEM

Exhaust gas flow	kg/h	807	1015
Max exhaust temperature at full load (at 25°C - after turbine)	°C	696	663
Max allowable backpressure	mmH ₂ O	500	

COOLING SYSTEM

Coolant capacity : engine only	liters	~ 12	
Cooling water flow rate	l/min	141	169
Max allowable pressure drop on external water circuit	mmH ₂ O	1.0	1.2
Pusher fan air flow	m ³ /s	4.7	5.5
Pusher fan head (static)	mmH ₂ O	50	
Pusher fan absorbed power	kW	8.6	14
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)	~ 16 (17.5)
Oil capacity of standard sump :		
at min. level	kg (l)	~ 8 (8.7)
at max level	kg (l)	~ 14 (15.2)
Maximum oil temperature	°C	105
Minimum oil pressure at rated speed	kg/cm ²	4.5

HEAT REJECTION (at full load conditions)

	kcal/kWh	419	382
Engine to coolant (water + oil)			
Engine to exhaust		600	612
Radiated to ambient		55	55
Engine supercharged air to coolant		126	150

ELECTRIC STARTING SYSTEM

Cranking motor rating	kW	3	
Auxiliary voltage	Vcc	12	
Starting batteries :			
Recommended capacity	Ah	180	
Discharge current	A	800	

OVERALL DIMENSIONS

