

1/ GENERAL			1500 g/1'	1800 g/1'
Engine model	NEF67 TE8W			
Basic engine type	F4HFA615A*D001 - 5802285279			
Number cylinders	6			
Firing order (N° 1 nearest to fan)	1-5-3-6-2-4			
Cylinder arrangement	in line			
Valves per cylinder	4			
Cycle	diesel 4 stroke			
Injection system	Direct common rail			
Electronic engine control unit	Bosch EDC17			
Induction System	Turbocharged aftercooled air/air			
Bore	mm	104		
Stroke	mm	132		
Total displacement	litre	6,7		
Mean piston speed	m/s	6,6		
Compression ratio	17:1			
Flywheel rotation	anti clockwise viewed on flywheel			
Housing flywheel	SAE 3			
Flywheel	11"1/2			
Moment of inertia				
	without flywheel	kgm <sup>2</sup>	0,14	
	flywheel only	kgm <sup>2</sup>	0,71	
BMEP gross				
	Prime Power	bar/kPa	26,07 / 2607	23,54 / 2354
	Stand-by Power	bar/kPa	28,65 / 2865	25,87 / 2587
Dry weight (including cooling package)	kg	~ 640		
Energy to coolant	kcal/kWh	358	343	
Energy to charge cooler	kcal/kWh	139	147	
Energy to radiation	kcal/kWh	59	68	
Dimensions L x W x H	mm	1697 X 789 X 1318		

2/ PERFORMANCES			1500 g/1'	1800 g/1'
Continuous Power	(gross)	kWm	174,7	189,3
Prime Power	(gross)	kWm	218,4	236,6
Stand-By Power	(gross)	kWm	240	260
Fan consumption		kWm	3,5	5
Continuous Power	(net)	kWm	171,2	184,3
Prime Power	(net)	kWm	214,9	231,6
Stand-By Power	(net)	kWm	236,5	255
Performance condition				
	temperature	°C	≤ 40	
	altitude a.s.l	m	≤ 1000	
Derating				
	temperature > T 40°C	%/5°C	2%	
	altitude >1000 <3000 m	%/500m	3%	
	altitude >3000 m	%/500m	6%	

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236,5 kW (1500 g/1') 255 kW (1800 g/1')

## 3/ COOLING SYSTEM

		1500 g/1'	1800 g/1'	
Type		liquid		
Recommended coolant		water + 50 % parafllu 11		
Coolant capacity				
engine only	liter	10,5		
radiator and hoses	liter	15		
Coolant pump flow	l/min	156	186	
Pressure cap setting	kPa (bar)	70 (0,7)		
Shutdown switch setting	°C	103		
Maximum additional restriction	Pa	196		
Air To Boil	Prime Power	°C	51	55
Fan				
diameter	mm	685		
number of blades		12		
drive ratio		1,1 : 1		
speed	giri/1'	1650	1980	
air flow	m <sup>3</sup> /s	4,1	5,2	
power consumption	kWm	3,5	5	

## 4/ LUBRICATION SYSTEM

		1500 g/1'	1800 g/1'
Oil sump capacity			
max	liter	12	
min	liter	8	
Oil system capacity including filter	liter	17,2	
Oil pressure at rated speed	kPa	300-500	
Oil temperature			
normal	°C	---	
max	°C	120	
Engine angularity			
longitudinal	degrees	35°	
transverse	degrees	35°	
Servicing interval	hours	600	
Oil specification		API CJ-4/ACEA E6/E9	
Oil consumption	%fuel	< 0,1	

## 5/ INTAKE SYSTEM

		1500 g/1'	1800 g/1'
Air consumption at 100 % of load	m <sup>3</sup> /h (Kg/h)	769 (923)	910 (1093)
Air intake restriction, clean filter	kPa (mbar)	2 (20)	
Air intake restriction, dirty filter	kPa (mbar)	5 (50)	
Air filter type		dry	

## 6/ EXHAUST SYSTEM

		1500 g/1'	1800 g/1'
Gas flow at stand-by Power	kg/h	970	1147
Max temperature at PRP (25°C)	°C	714	730
Max allowable back pressure	kPa (mbar)	5 (50)	
Energy to exhaust	kcal/kWh	560	598

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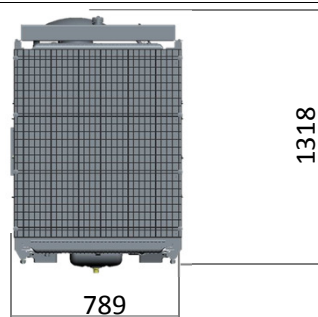
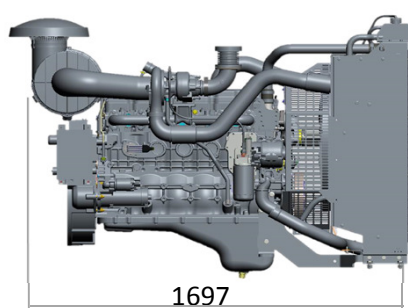
Engine N67 TE8W

7/ FUEL SYSTEM			1500 g/1'	1800 g/1'
Fuel consumption at				
Stand-By	gr/kWh (l/h) [kg/h]		205 (59,2) [49,2]	205 (64,1) [53,3]
pieno carico PRP	gr/kWh (l/h) [kg/h]		196 (51,5) [42,8]	198 (56,3) [46,8]
80%	gr/kWh (l/h) [kg/h]		196 (41,2) [34,2]	198 (45) [37,5]
50%	gr/kWh (l/h) [kg/h]		200 (26,2) [21,8]	202 (28,7) [23,8]
Fuel specifications			EN 590	
Feed pump max suction head	m		---	

8/ ELECTRIC SYSTEM			1500 g/1'	1800 g/1'
Voltage (negative to ground)	V		24	
Starter motor				
make			Bosch	
power	kW		3	
pull current	Amp		60	
hold current	Amp			
break away current +20°C	Amp			
cranking current +20°C	Amp			
Number of teeth on starter motor				
Number of teeth on flywheel				
Starting batteries				
recommended capacity	Ah			
discharge current	Amp			
(EN 50342)				
Stop solenoid energized to run			---	
Alternator				
voltage	V		24	
charge	Amp		90	

9/ COLD STARTING			1500 g/1'	1800 g/1'
Without air preheating	°C		-10	
With air preheating	°C		-25	

10/ EMISSION GASEOUS AND PARTICLES			1500 g/1'	1800 g/1'
No <sub>x</sub>	Oxides of nitrogen	gr/kWh	-	
HC	Hydrocarbons	gr/kWh	-	
No <sub>x</sub> +HC		gr/kWh	-	
CO	Carbon monoxide	gr/kWh	-	
PT	Particles	gr/kWh	-	



Date of update January 2017  
Specifications subject to change without notice  
Illustrations may include optional equipment.