



IDJ180I

**IDEA DIESEL GENERATING SET
TECHNICAL SPECIFICATIONS**



ELECTRICAL			
FREQUENCY	VOLTAGE	PRIME	STAND-BY
50 Hz	400/230 V	160 kVA / 128 kW	176 kVA / 140,5 kW
Rated Speed	1500 RPM - 50 Hz		
Phase	3		
Power Factor	0,8		

Prime : This rating is for the supply of continuous electrical power at variable load. There is no limitation on the annual hours in operation and 10% overload power can be supplied for 1 hour in 12.

Stand-by : This rating is for the supply of continuous electrical power at variable load , in the event of utility power failure.No overload is permitted.

WEIGHT AND DIMENSIONS			
		OPEN	CANOPY
Length	mm	2450	3350
Width	mm	1100	1100
Height	mm	1480	1700
Weight	kg	1545	1845

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ENGINE		
		50 Hz
Output Rating	kWm	165
Manufacturer and Model		IVECO (FPT) NEF67 TM4
Fuel		Diesel
Injection		Direct
Aspiration		Turbocharged Aftercooler Air/Air
Cylinders		6
Bore and Stroke	mm	104 x 132
Displacement	lt	6,7
Cooling		Water
Engine Oil Specification		SAE 15W40
Compression Ratio		17,5 : 1
Engine Oil Capacity	lt	17,2
Coolant Capacity (incl.radiator)	lt	25,5
Governor		Mechanical
Air Filter		Dry element
Fuel Consumption		50 Hz
100 % Load	lt / h	42,2
75 % Load	lt / h	29,4
50 % Load	lt / h	18

EXHAUST SYSTEM		
Maximum Temperature	°C	497
Exhaust Gas Flow	kg/h	741,2
Maximum Allowed Back Pressure	kPA	5

FUEL SYSTEM		
Diesel Specification		EN590
Fuel Tank Capacity	lt	195

ALTERNATOR		
Poles		4 pole
Winding Connections		Star
Insulation		Class H
Enclosure		IP23
Exciter System		Self regulating Brushless
Voltage Regulator		AVR
Steady State Voltage Regulation		± 1 %
Bearing		Single bearing sealed
Coupling		Flexible disc
Cooling		Direct drive centrifugal blower fan

GENERATOR FEATURES	STANDARD		OPTIONAL
	MANUAL	AUTOMATIC	
ENGINE			
Engine		●	X
Cooling Pack		●	X
Tropical Radiator		X	●
Heavy Duty Air Filter		X	●
Electronic Governor		X	●
High Coolant Temperature Sender		●	X
Low Oil Pressure Sender		●	X
Low Coolant Level Sender		●	X
Radiator Guards		●	X
Hot Component Guards		●	X
Manual Oil Drain Pump		X	●
Fuel Prefilter		X	●
Water Jacket Heater	X	●	● (Manual)
Industrial Silencer - Open Set		●	X
Residential Silencer - Open Set		X	●
Residential Silencer - Canopy		●	X
Cold start aid		X	●
Remote Radiator		X	●
Trailer		X	●
ELECTRICS			
Alternator		●	X
Circuit Breaker - 3 poles		X	●
Circuit Breaker - 4 poles		X	●
Battery Isolator		X	●
Earth Fault Protection		X	●
Anti condensation Heater		X	●
Optional Voltages		X	●
Class F insulation		X	●
External Stop Button - Canopy		●	X
GSM SMS message sending on fault		X	●
Battery Charger	X	●	● (Manual)
ATS Panel - 3 Poles	X	●	X
ATS Panel - 4 Poles	X	X	● (Automatic)
Synchronisation Panel	X	X	● (Automatic)

● - Available X - Not Available

REFERENCE STANDARDS

IDEA Generating Sets are CE certified and conform to the following standards ;

- Power according to ISO 3046 and ISO 8528
- EN 12100 , EN 13857 , EN 60204
- 2006/42/CE Machinery Safety
- 2006/95/EC Low Voltage
- 2004/108/CE EMC
- Ambient reference conditions 1000 mbar, 25 °C, 30 % relative humidity ISO8528

All the information in this leaflet is intended for general purposes only. IDEA reserves the right to change the specifications without notice.

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