



Images are for illustration purpose only

ENGINE

IVECO heavy duty diesel engine
4-cycle, water cooled, naturally aspirated, direct injection

12/24 Volt starter and charge alternator with battery, rack and cables

Replaceable air, fuel and oil filter

Industrial type radiator

Flexible fuel piping

Oil sump drain valve and extension pipe

Industrial/Residential type exhaust silencer.

Jacket Water Heater

Diesel gen-set maintenance and operating instructions and electrical circuit diagram

ALTERNATOR

Brushless, single bearing, 4-pole alternator coupled with flexible disc coupling

H type insulation class

IP 23 protection

Self exciting

Electronic AVR

CONTROL PANEL

DeepSea mains sensing or remote start control module

Emergency stop push button

Output circuit breaker

Static battery charger

Ready for remote monitoring

CANOPY

Modular type sound-proof canopy

Built from galvanized steel and epoxy, polyester powder painted

Lockable doors on both sides of canopy designed for easy access to essential replacement parts

Emergency stop push button

Control Panel viewing window

Bunded base fuel tank (Optional)

Forklift Pockets (Optional)

Power cable entry with a gland plate

Standby Power

Applicable for supplying power to varying electrical load for the duration of power interruption of a reliable utility source, Overload is not allowed.

Prime Power

The maximum power which a generating set is capable of delivering continuously whilst supplying a variable electrical load. Average load should be 70%. The generator can be overloaded 10% for 1 hour per 12 hrs.

Base Power

Continuous power rating is used in applications where supplying power is at a constant 100% load for an unlimited number of hours each year.



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Registered in England & Wales No:11023250





MODEL		EA82	EA90	EA110	
OUTPUT	Standby	kVA	82	90	110
		kW	66	72	88
	Prime	kVA	75	80	100
		kW	60	64	80
ENGINE	Engine		IVECO	IVECO	IVECO
	Model		NEF45SM2A	NEF45SM3	NEF45TM2A
	Configuration		INLINE	INLINE	INLINE
	No. of Cylinders		4	4	4
	Speed	rpm	1500	1500	1500
	Displacement	l	4,5	4,5	4,5
	Bore x Stroke	mm	104 x 132	104 x 132	104 x 132
	Compression Ratio		17,5:1	17,5:1	17,5:1
	Aspiration		Turbocharged	Turbocharged	Turbocharged
	Governor Type		Mechanical	Mechanical	Mechanical
	Cooling		Water	Water	Water
	Coolant Capacity	l	18,5	18,5	18,5
	Lubrication Oil Capacity	l	12,8	12,8	12,8
	Fuel Consumption l/h	100%Load	17	19	22
75% Load		13	15	16	
50%Load		9	10	11	
ALTERNATOR	Phase		3	3	3
	Pole		4	4	4
	No. of Leads		12	12	12
	Excitation System		AVR	AVR	AVR
	Insulation Class		H	H	H
	IP Protection		IP23	IP23	IP23
	Power Factor		0,8	0,8	0,8
	Frequency	Hz	50	50	50
Voltage	V	400	400	400	
SIZE	Canopy Set Dimensions (LxWxH) & Weight	mm	2600 x 1000 x 1420	2600 x 1000 x 1420	3100 x 1100 x 1690
		kg	1420	1425	1735
	Open Set Dimensions (LxWxH) & Weight	mm	2200 x 1000 x 1410	2200 x 1000 x 1410	2600 x 1100 x 1680
		kg	1223	1228	1492
	Fuel Tank Capacity	l	139	139	275

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CONTROL MODULE

DSE 7 Series Control Module

State of the art, microprocessor controlled

4line, 64 x 132 pixel display LCD display

Automatic mains failure sensing

Front panel manual programming

User friendly setup and button layout

Remote start

Event logging, showing date and time

Stop/Reset, Manual

Displays

Engine Speed (rpm)

Oil pressure

Fuel Level (%)

Coolant temperature

Running Hours

Battery voltage monitoring

Generator Voltage (LL. LN)

Generator Current (L1-L2-L3)

Generator Frequency (Hz)

Generator Load & Power Monitoring (kW. kVA. kVAR.

pf)

Mains Voltage (LL. LN)

Mains Frequency

Generator Set Ready

Mains Ready



Alarms

High coolant temperature

Low Fuel Level

Low oil pressure

Charge failure

Battery Low/High voltage

Fail to start

Fail to stop

High/Low Generator voltage

Generator Over/Under frequency

Generator Over/Under Speed

