

Doosan 440-580 kVA 50 Hz Diesel Generator Set



Power



Images are for illustration purpose only

ENGINE

DOOSAN heavy duty diesel engine
4-cycle, water cooled, turbocharged,
direct injection
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 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 con-
tinuously 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			EAD440	EAD510	EAD580
OUTPUT	Standby	kVA	440	509	580
		kW	352	407	464
	Prime	kVA	400	463	526
		kW	320	370	420
ENGINE	Engine		DOOSAN	DOOSAN	DOOSAN
	Model		P158LE	DP158LC	DP158LD
	Configuration		V	V	V
	No. of Cylinders		8	8	8
	Speed	rpm	1500	1500	1500
	Displacement	l	14,6	14,6	14,6
	Bore x Stroke	mm	128 x 142	128 x 142	128 x 142
	Compression Ratio		15:1	15:1	15:1
	Aspiration		Turbocharged	Turbocharged	Turbocharged
	Governor Type		Electronic	Electronic	Electronic
	Cooling		Water	Water	Water
	Coolant Capacity	l	80	79	79
	Lubrication Oil Capacity	l	21	22	22
	Fuel Consumption l/h	100%Load	82,7	99,6	115,1
75% Load		60,3	72,9	83,4	
50%Load		40,6	48,9	55,1	
ALTERNATOR	Phase		3	3	3
	Pole		4	4	4
	No. of Leads		6-12	6-12	6-12
	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	4700 x 1650 x 2250	4700 x 1650 x 2250	5000 x 1650 x 2250
		kg	3962	4420	4440
	Open Set Dimensions (LxWxH) & Weight	mm	3000 x 1650 x 1970	3100 x 1650 x 1970	3300 x 1650 x 1970
		kg	3041	3500	3454
	Fuel Tank Capacity	l	780	780	780

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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