

Doosan 220-300 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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Doosan 220-300 kVA 50 Hz Diesel Generator Set



MODEL		EAD220	EAD275	EAD300	
OUTPUT	Standby	kVA	220	275	300
		kW	176	220	240
	Prime	kVA	200	250	275
		kW	160	200	220
ENGINE	Engine		DOOSAN	DOOSAN	DOOSAN
	Model		P086TI	P126TI-II	P126TI-II
	Configuration		INLINE	INLINE	INLINE
	No. of Cylinders		6	6	6
	Speed	rpm	1500	1500	1500
	Displacement	l	8,1	11,1	11,1
	Bore x Stroke	mm	111 x 139	123 x 155	123 x 155
	Compression Ratio		16,4:1	17:1	17:1
	Aspiration		Turbocharged	Turbocharged	Turbocharged
	Governor Type		Electronic	Electronic	Electronic
	Cooling		Water	Water	Water
	Coolant Capacity	l	48,5	51	51
	Lubrication Oil Capacity	l	15,5	23	23
	Fuel Consumption l/h	100%Load	43,1	51,9	63,1
75% Load		31,7	38,7	47	
50%Load		21,1	25,7	31,3	
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	3860 x 1850 x 1200	3940 x 1300 x 1850	3940 x 1300 x 1850
		kg	2438	2759	2893
	Open Set Dimensions (LxWxH) & Weight	mm	2700 x 1200 x 1650	3000 x 1300 x 1700	3000 x 1300 x 1700
		kg	1897	2194	2328
	Fuel Tank Capacity	l	330	385	385

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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