

Perkins 450-550 kVA 50 Hz Diesel Generator Set



Power



Images are for illustration purpose only

ENGINE

PERKINS heavy duty diesel engine
4-cycle, water cooled, Turbocharged,
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 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



Perkins 450-550 kVA

50 Hz Diesel Generator Set



Power

MODEL		EAP450	EAP500	EAP550	
OUTPUT	Standby	kVA	450	500	550
		kW	360	400	440
	Prime	kVA	400	455	500
		kW	320	364	400
ENGINE	Engine		PERKINS	PERKINS	PERKINS
	Model		2206A-E13TAG3	2506A-E15TAG1	2506A-E15TAG2
	Configuration		INLINE	INLINE	INLINE
	No. of Cylinders		6	6	6
	Speed	rpm	1500	1500	1500
	Displacement	l	12,5	15,2	15,2
	Bore x Stroke	mm	130 x 158	137 x 171	137 x 171
	Compression Ratio		16,3 : 1	16,0 : 1	16,0 : 1
	Aspiration		Turbocharged	Turbocharged	Turbocharged
	Governor Type		Electronic	Electronic	Electronic
	Cooling		Water	Water	Water
	Coolant Capacity	l	51,4	58	58
	Lubrication Oil Capacity	l	40	62	62
	Fuel Consumption l/h	100%Load	85	95	106
75% Load		65	72	81	
50%Load		46	50	55	
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	4050 x 1500 x 2525	4050 x 1500 x 2525	4050 x 1500 x 2525
		kg	4972	5163	5366
	Open Set Dimensions (LxWxH) & Weight	mm	3600 x 1500 x 2110	3600 x 1500 x 2110	3600 x 1500 x 2110
		kg	4346	4537	4740
	Fuel Tank Capacity	l	980	980	980

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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