

# Perkins 300-400 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





MODEL		EAP300	EAP330	EAP400	
OUTPUT	Standby	kVA	300	330	400
		kW	240	264	320
	Prime	kVA	275	300	350
		kW	220	240	280
ENGINE	Engine	PERKINS	PERKINS	PERKINS	
	Model	1506A-E88TAG4	1506A-E88TAG5	2206A-E13TAG2	
	Configuration	INLINE	INLINE	INLINE	
	No. of Cylinders	6	6	6	
	Speed	rpm	1500	1500	1500
	Displacement	l	8,8	8,8	12,5
	Bore x Stroke	mm	112 x 149	112 x 149	130 x 157
	Compression Ratio		16,1 : 1	16,1 : 1	16,3 : 1
	Aspiration		Turbocharged	Turbocharged	Turbocharged
	Governor Type		Electronic	Electronic	Electronic
	Cooling		Water	Water	Water
	Coolant Capacity	l	33,2	33,2	51,4
	Lubrication Oil Capacity	l	41	41	40
	Fuel Consumption l/h	100%Load	60	65	75
75% Load		46	48	58	
50%Load		32	33	40	
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	3600 x 1200 x 2490	3600 x 1200 x 2490	4050 x 1500 x 2525
		kg	3195,2	3195	5002
	Open Set Dimensions (LxWxH) & Weight	mm	3100 x 1200 x 2490	3100 x 1200 x 2490	3600 x 1500 x 2110
		kg	2877	2877	4376
	Fuel Tank Capacity	l	360	360	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