

# Perkins 220-275 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		EAP220	EAP250	EAP275	
OUTPUT	Standby	kVA	220	250	275
		kW	176	200	220
	Prime	kVA	200	225	250
		kW	160	180	200
ENGINE	Engine	PERKINS	PERKINS	PERKINS	
	Model	1106A-70TAG4	1206A-E70TTAG2	1206A-E70TTAG3	
	Configuration	INLINE	INLINE	INLINE	
	No. of Cylinders	6	6	6	
	Speed	rpm	1500	1500	1500
	Displacement	l	7,01	7,01	7,01
	Bore x Stroke	mm	105 x 135	105 x 135	105 x 135
	Compression Ratio		16 : 1	15.8 : 1	15.8 : 1
	Aspiration		Turbocharged	Turbocharged	Turbocharged
	Governor Type		Electronic	Electronic	Electronic
	Cooling		Water	Water	Water
	Coolant Capacity	l	16,5	16	16
	Lubrication Oil Capacity	l	21	25,5	25
	Fuel Consumption l/h	100%Load	45.8	51	56.9
75% Load		34.7	38	41.5	
50%Load		23.1	25	28.1	
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	3220 x 1100 x 1690	3600 x 1200 x 2490	3800 x 1200 x 2490
		kg	2194	2979	2979
	Open Set Dimensions (LxWxH) & Weight	mm	2770 x 1100 x 1690	3100 x 1200 x 2490	3100 x 1200 x 2490
		kg	1939	2661	2661
	Fuel Tank Capacity	l	275	360	360

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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