

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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EA Power Systems Ltd.

207 Dominion Rd. LE36QA Leicester United Kingdom

www.eapowers.com +44(0)1163180570

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