

# Perkins 33-66 kVA

## 50 Hz Diesel Generator Set



# Power



Images are for illustration purpose only

### ENGINE

PERKINS heavy duty diesel engine  
4-cycle, water cooled, naturally aspirated, 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 continuously 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.

3rd Floor St George's House 6 St George's Way

LE11QZ Leicester

www.eapowers.com +44(0)1163180570





MODEL			EAP33	EAP50	EAP66
OUTPUT	Standby	kVA	33	50	66
		kW	26	40	53
	Prime	kVA	30	45	60
		kW	24	36	48
ENGINE	Engine		PERKINS	PERKINS	PERKINS
	Model		1103A-33G	1103A-33TG1	1103A-33TG2
	Configuration		INLINE	INLINE	INLINE
	No. of Cylinders		3	3	3
	Speed	rpm	1500	1500	1500
	Displacement	l	3,3	3,3	3,3
	Bore x Stroke	mm	105 x 127	105 x 127	105 x 127
	Compression Ratio		19,25 : 1	17,25 : 1	17,25 : 1
	Aspiration		Natural	Turbocharged	Turbocharged
	Governor Type		Mechanical	Mechanical	Mechanical
	Cooling		Water	Water	Water
	Coolant Capacity	l	10,2	10,2	10,2
	Lubrication Oil Capacity	l	8,3	7,9	7,9
	Fuel Consumption l/h	100%Load	7.2	10.80	14.6
		75% Load	5.61	8.23	10.8
		50%Load	4.06	5.83	7.56
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	2300 x 1000 x 1545	2300 x 1000 x 1545	2300 x 1000 x 1545
		kg	917	997	1025
	Open Set Dimensions (LxWxH) & Weight	mm	1900 x 1000 x 1400	1900 x 1000 x 1400	1900 x 1000 x 1400
		kg	707	787	815
	Fuel Tank Capacity	l	101	101	101

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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