

## TECHNICAL SPECIFICATIONS

### 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.

### CONTINUOUS 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. Continuous power rated units are most widely used in applications where the power grid is unreachable.



### ENGINE

- PERKINS heavy duty diesel engine
- 4-cycle, water cooled, naturally aspirated
- Direct injection
- 12/24 Volt starter motor 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
- Residential type exhaust silencer.
- Maintenance free battery
- Jacket Water Heater

### ALTERNATOR

- Brushless, single bearing,4-pole alternator coupled with flexible disc coupling
- H type insulation class
- IP 21-23 protection
- Self exciting
- Electronic AVR

### CONTROL PANEL

- DSE 6 Series 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



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EA Power Systems Ltd.

207 Dominion Rd. LE36QA Leicester United Kingdom

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Registered in England & Wales No:11023250



MODEL		EAP33	EAP50	EAP66	
OUTPUT	Standby	kVA	33	49,6	66
		kW	26,4	39,7	52,8
	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	
	Governor Type		Mechanical		
	Cooling		Water		
	Coolant Capacity	l	10,2	10,2	10,2
	Fuel Consumption l/h	l	8,3	7,9	7,9
		100%Load	7,2	10,8	13,9
75% Load		5,61	8,23	10,4	
50%Load		4,06	5,83	7,2	
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	2450 x 1000 x 1615	2450 x 1000 x 1615	2450 x 1000 x 1615
		kg	990	1095	1120
	Open Set Dimensions (LxWxH) & Weight	mm	2050 x 1000 x 1550	2050 x 1000 x 1550	2050 x 1000 x 1550
		kg	850	955	980
	Fuel Tank Capacity	l	132	132	180

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## CONTROL MODULE

### Standard Specifications

- 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, Auto, Test, Start, buttons, toggle display button

### Displays

- Engine Speed (rpm)
- Oil pressure
- 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 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

### Shut Downs

- Fail to start
- Emergency stop
- Low oil pressure
- High coolant temperature
- Generator Over/Under frequency
- Generator Over/Under Speed
- High/Low Generator voltage
- Oil pressure sensor open

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