

## 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
- 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 7 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



EA Power Systems reserves the right to make changes in model, technical specifications, color, equipment & accessories without prior notice

EA Power Systems Ltd.

207 Dominion Rd. LE36QA Leicester United Kingdom

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Registered in England & Wales No:11023250

MODEL		EAP450	EAP500	EAP550	
OUTPUT	Standby	kVA	450	500	550
		kW	360	400	440
	Prime	kVA	400	455	500
		kW	320	364	400
Engine		PERKINS	PERKINS	PERKINS	
Model		2206C - E13TAG3	2506C - E15TAG1	2506C - E15TAG2	
Configuration		INLINE	INLINE	INLINE	
No. of Cylinders		6	6	6	
Speed	rpm	1500	1500	1500	
Displacement	l	12,50	15,2	15,2	
Bore x Stroke	mm	130 x 157	137x 171	137x 171	
Compression Ratio		16,3:1	16:1	16:1	
Aspiration		Turbocharged			
Governor Type		Electronic			
Cooling		Water			
Coolant Capacity	l	51,4	58	58	
Lubrication Oil Capacity	l	40	62	62	
Fuel Consumption l/h	100%Load	85	99	106	
	75% Load	65	73	81	
	50%Load	46	51	55	
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
SIZE	Canopy Set Dimensions (LxWxH) & Weight	V	400	400	400
		mm	4400 x 1500 x 2665	4400 x 1500 x 2665	4400 x 1500 x 2665
	kg	4100	4200	4200	
	Open Set Dimensions (LxWxH) & Weight	mm	3785 x 1500 x 2020	3785 x 1500 x 2020	3875 x 1500 x 2020
		kg	3400	3500	3500
Fuel Tank Capacity	l	970	970	970	

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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

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