

## 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

- CUMMINS heavy duty diesel engine
- 4-cycle, water cooled, naturally aspirated
- 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
- Engine 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 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 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)



EA Power Systems Ltd.

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MODEL		EAC1400	EAC1650	EAC2000	
OUTPUT	Standby	kVA	1400	1650	2000
		kW	1120	1320	1600
	Prime	kVA	1275	1400	1875
		kW	1020	1120	1500
ENGINE	Engine	CUMMINS	CUMMINS	CUMMINS	
	Model	KTA50G3	KTA50G8	QSK60G3	
	Configuration	V	V	V	
	No. of Cylinders	16	16	16	
	Speed	rpm	1500	1500	1500
	Displacement	l	50	50	60,2
	Bore x Stroke	mm	158,8 x 158,8	158,8 x 158,8	159 x 190
	Compression Ratio		13,9:1	14,9:1	14,5:1
	Aspiration		Turbocharged		
	Governor Type		Electronic		
	Cooling		Water		
	Coolant Capacity	l	240	240	290
	Lubrication Oil Capacity	l	177	204	280
	Fuel Consumption l/h	100%Load	261	298	371
75% Load		199	222	276	
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 & Fuel Tank Capacity	mm	6000 x 2438 x 2700	6500 x 2438 x 3200	7000 x 2438 x 3200
		kg	12500	14800	14000
		l	2500	2500	3000
	Open Set Dimensions (LxWxH) & Weight & Fuel Tank Capacity	mm	5100 x 2050 x 2200	5690 x 2050 x 2350	5800 x 2150 x 2500
		kg	10800	11040	14000
		l	2500	2500	3000

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

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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