# Baudouin 50-88 kVA

## 50 Hz Diesel Generator Set





Images are for illustration purpose only

#### **ENGINE**

BAUDOUIN 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.

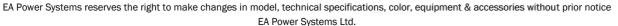
#### **Prime Power**

The maximum power which a generating set is capable of delivering 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.







MODEL			EAB50	EAB55	EAB72	EAB88
ОИТРИТ	Standby	kVA	50	55	70	88
		kW	40	44	56	70
	Prime	kVA	45	50	65	64
		kW	36	40	52	66
ENGINE	Engine		BAUDOUIN	BAUDOUIN	BAUDOUIN	BAUDOUIN
	Model		4M06G50/5	4M06G55/5	4M10G70/5	4M10G88/5
	Configuration		INLINE	INLINE	INLINE	INLINE
	No. of Cylinders		4	4	4	4
	Speed	rpm	1500	1500	1500	1500
	Displacement	1	2.3	2.3	4.09	4.09
	Bore x Stroke	mm	89 x 92	89 x 92	105 x 118	105 x 118
	Compression Ratio		17.5:1	17.5:1	17.5:1	17.5:1
	Aspiration		Turbocharged	Turbocharged	Turbocharged	Turbocharged
	Governor Type		Electronic	ECU	Electronic	Electronic
	Cooling		Water	Water	Water	Water
	Coolant Capacity	1	12.9	8.4	17,9	17,9
	Lubrication Oil Capacity	1	9.5	9.2	13	13
	Fuel Consumption I/h	100%Load	10.7	11.9	15	18.8
		75% Load	8	8.9	11,1	13.5
		50%Load	5.4	6	7.7	9.1
ALTERNATOR	Phase		3	3	3	3
	Pole		4	4	4	4
	No. of Leads		12	12	12	12
	Excitation System		AVR	AVR	AVR	AVR
	Insulation Class		Н	Н	Н	Н
	IP Protection		IP23	IP23	IP23	IP23
	Power Factor		0.8	0.8	0.8	0.8
	Frequency	Hz	50	50	50	50
	Voltage	V	400	400	400	400
SIZE	Canopy Set Dimensions (LxWxH) & Weight	mm	2300 x 1000 x 1420	2300 x 1000 x 1420	2600 x 1000 x 1410	2600 x 1000 x 1410
		kg	1105	1113	1536	1536
	Open Set Dimensions (LxWxH) & Weight	mm	1900 x 1000 x 1420	1900 x 1000 x 1420	2200 x 1000 x 1410	2200 x 1000 x 1410
		kg	930	938	1339	1339
	Fuel Tank Capacity	I	101	101	139	139

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



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#### **CONTROL MODULE**

DSE 6 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

