

# MODEL GBW15-22


YANMAR




- YANMAR Diesel engine.
- Water cooling system.
- Internal residential muffler.
- Easy to be transported with hand pallet truck.
- Central lifting point.
- Complete with engine and battery liquids.
- Oil draining pipe with cap.




MODEL CODE		GBW15Y SB130TYA	GBW22Y SB190TYA	
TECHNICAL FEATURES	PRIME POWER PRP	kVA (kW)	13,0 (10,4)	19,0 (15,2)
	CEMERGENCY POWER LTP	kVA (kW)	13,8 (11,0)	20,9 (16,7)
	Voltage	Volt	400/231	400/231
	Frequency	Hz	50	50
	Power factor	Cos $\Phi$	0,8	0,8
	Fuel capacity	Litres	51	51
	Autonomy (100% load PRP)	h	14,0	10,0
	Acoustic power	LWA	96	96
	Acoustic pressure at 7m	dB(A)	71	71
	Dimensions (LxWxH)	mm	1.600 x 870 x 1.072	1.600 x 870 x 1.072
	Weight	kg	432	495
	DIESEL ENGINE	DEUTZ	F4M 2011	BF4M 2011
	Cooling system	Type	Water	Water
	Speed	rpm	1.500	1.500
	Displacement	c.c.	1.642	2.190
	Cylinders and disposition	n° disp.	3 L	4 L
	Aspiration	Type	Natural	Natural
	Engine power PRP	kWm	13,2	17,7
	Fuel consumption (100% load)	l/h	3,6	5,1
	Specific consumption PRP	g/kWh	245	245
	Engine governor (standard)	Type	Mechanical	Mechanical
	Electrical system (DC)	Volt	12	12
	ALTERNATOR	LINZ	E1S 13M/4 - 13kVA	E1S 13M/4 - 19kVA
	Insulation	Class	H	H
	Mechanical degree of protection	Type	IP23	IP23
	Voltage regulation	Type	Compound	Compound

MANUAL CONTROL PANEL (MCP)		GBW15Y	GBW22Y
MANUAL CONTROL PANEL (MCP)	 <p>Manual control panel, mounted on the genset and complete of: instrumentation, control, protection and sockets.</p>	Instrumentation (analogue)	<ul style="list-style-type: none"> <li>• Voltmeter</li> <li>• Hours-counter</li> <li>• Ammeter</li> </ul>
		Commands and others	<ul style="list-style-type: none"> <li>• Start selector switch with key: OFF - ON* - START</li> <li>• Emergency stop button</li> </ul>
		Protections with alarm	<ul style="list-style-type: none"> <li>• Engine protection: battery charger failure, low oil pressure, high engine temperature.</li> </ul>
		Protections with shutdown	<ul style="list-style-type: none"> <li>• Engine protection unit: low fuel level, low pressure oil, high engine temperature</li> <li>• Circuit breaker protection: III poles</li> <li>• Differential protection.1</li> </ul>
		Output and sockets (2)	<ul style="list-style-type: none"> <li>1 x 400V/32A 3P+N+T CE</li> <li>1 x 400V/16A 3P+N+T CE</li> <li>2 x 230V/16A 2P+T CE</li> <li>1 x Schuko 230V/16A</li> </ul>
<p><b>ON*</b>: when selected this position, the system will take some seconds for air preheating by means of a glow plug. The preheating period is lighted by the proper led on the engine protection unit.</p>			

AUTOMATIC CONTROL PANEL (ACP)		GBW15Y	GBW22Y
AUTOMATIC CONTROL PANEL (ACP)    Automatic control panel mounted on the genset, complete with digital control unit AC02 for monitoring, control and protection of the generating set.	Instrumentation (analogue)	<ul style="list-style-type: none"> <li>• Generating set voltage</li> <li>• Generating set frequency</li> <li>• Generator set current</li> <li>• Battery voltage.</li> <li>• Hours-counter.</li> <li>• Mains voltage.</li> </ul>	
	Commands and others	<ul style="list-style-type: none"> <li>• Selector switch with six positions: Automatic test - Automatic starting - Engine locked - Mains contactor forced - Manual starting - Genset contactor forced</li> <li>• Push-buttons: start/stop, up/down selection, reset</li> <li>• Emergency stop button</li> <li>• Remote starting availability</li> <li>• Automatic battery charger</li> </ul>	
	Protections with alarm	<ul style="list-style-type: none"> <li>• Engine protection: low oil pressure, high engine temperature</li> <li>• Genset protection: under/over voltage, overload, battery charger failure, battery voltage out of limits, under/over frequency, start failure</li> </ul>	
	Protections with shutdown	<ul style="list-style-type: none"> <li>• Engine protection: low oil pressure, high engine temperature</li> <li>• Genset protection: under/over voltage, overload, battery charger failure, battery voltage out of limits, under/over frequency, start failure.</li> <li>• Circuit breaker protection: III poles</li> <li>• Differential protection</li> </ul>	
	Output and sockets	<ul style="list-style-type: none"> <li>• Plinth row for connection from ACP to LTS panel.</li> </ul> 1 x 400V/32A 3P+N+T CE	
* <b>Manual Starting:</b> the preheating period begins automatically when this position is selected. It is necessary to select again this position to enable one more time the preheating period.			

## ACCESSORIES

• LOAD TRANSFER SWITCH PANEL.		GBW15Y	GBW22Y
  Load transfer switch panel built in a metal cabinet and supplied loose from the genset.	Change over contactors	IV poles - 20A	IV poles 32A
	Connections	<ul style="list-style-type: none"> <li>• Plinth row for connection from ACP to LTS panel</li> <li>• Terminals board for power cables connection (Genset-Mains-Load)</li> </ul>	
	Protections	<ul style="list-style-type: none"> <li>• Contactors mechanically and electrically interlocked</li> <li>• Emergency stop button</li> </ul>	
Automatic control panel + LTS panel measures the Mains voltage and starts automatically the genset within few seconds in case of Mains failure. It transfers immediately the load again to the genset when the Mains voltage returns within the rated values.			

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