



REF. GDS **24.00**

# MODEL | **GBW15-22 Yanmar**

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




MODEL		GBW15Y	GBW22Y
CODE			
<b>PRIME POWER PRP</b>	<b>kVA (kW)</b>	<b>9.3 (9.3)</b>	<b>14.67 (14.67)</b>
<b>EMERGENCY POWER LTP</b>	<b>kVA (kW)</b>	<b>10.23 (10.23)</b>	<b>16.14 (16.14)</b>
Voltage	Volt	240	240
Frequency	Hz	60	60
Power factor	Cos φ	1	1
Fuel capacity	Litres	51	51
Autonomy ( 100% load PRP)	h	14,6	12,1
Acoustic power	LWA	96	96
Acoustic pressure at 7m	dB(A)	71	71
Dimensions (LxWxH)	mm	1.600x870x1.072	1.600x870x1.072
Weight	kg	445	495
<b>DIESEL ENGINE</b>	<b>YANMAR</b>	<b>3TNV88-GGE</b>	<b>4TNV88-GGE</b>
Cooling system	Type	Water	Water
Speed	rpm	1.800	1.800
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	3,5	4,2
Specific consumption PRP	g/kWh	245	245
Engine governor (standard)	Type	Mechanical	Mechanical
Electrical DC System	Volt	12	12
<b>SYNCHRONOUS ALTERNATOR</b>	<b>STAMFORD</b>	<b>BCI 164C</b>	<b>BCI 184E</b>
Insulation	Class	H	H
Mechanical degree of protection	Type	IP23	IP23
Voltage regulation	Type	Electronic	Electronic


TECHNICAL FEATURES

TECHNICAL CHARACTERISTICS NOT IMPREGNATIVE RESERVATION OF MODIFICATIONS FOR INNOVATION OF THE PRODUCT



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>	<b>Instrumentation (analogue)</b> <ul style="list-style-type: none"> <li>• Voltmeter.</li> <li>• Hours-counter.</li> <li>• Ammeter.</li> </ul>	
		<b>Commands</b> <ul style="list-style-type: none"> <li>• Start selector switch with key: OFF -ON* - START.</li> <li>• Emergency stop button.</li> </ul>	
		<b>Protections with alarm</b> <ul style="list-style-type: none"> <li>• Engine protection: battery charger failure, low oil pressure, high engine temperature.</li> </ul>	
		<b>Protections with shut down</b> <ul style="list-style-type: none"> <li>• Engine protection: battery charger failure, low oil pressure, high engine temperature.</li> <li>• Circuit breaker protection: III poles.</li> <li>• Differential protection.</li> </ul>	
		<b>Power Output</b> <ul style="list-style-type: none"> <li>• Plinth row (internal) and duct for power wiring connection.</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 light by the proper led on the engine protection unit.</p>			

TECHNICAL CHARACTERISTICS NOT IMPREGIATIVE RESERVATION OF MODIFICATIONS FOR INNOVATION OF THE PRODUCT


AUTOMATIC CONTROL PANEL (ACP)		GBW15Y	GBW22Y
 <p>Automatic control panel mounted on the genset, complete with digital control unit <b>AC02</b> for monitoring, control and protection of the generating set.</p>	<b>Instrumentation</b> (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>	
	<b>Commands and others</b>	<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>	
	<b>Protections with alarm</b>	<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>	
	<b>Protections with shutdown</b>	<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>	
	<b>Power Output</b>	<ul style="list-style-type: none"> <li>Plinth row (internal) and duct for power wiring connection.</li> </ul>	
<p>* <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.</p>			

AUTOMATIC CONTROL PANEL (AMF)		GBW15Y	GBW22Y
 <p>Automatic control panel for automatic starting by Mains failure. Delivered loose from the genset, and complete with digital control unit <b>AC02</b> for monitoring, control and protection of the generating set.</p>	<b>Digital instrumentation</b> through AC02 control unit.	<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>	
	<b>Commands and others</b>	<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> <li>Acoustic alarm.</li> </ul>	
	<b>Change over contactors Mains/Genset</b>	III poles - 45A.	III poles - 63A.
	<b>Protections with alarm</b>	<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>	
	<b>Protections with shutdown</b>	<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>	
	<b>Output</b>	<ul style="list-style-type: none"> <li>Plinth row for connection from pre-wired panel (mounted on the genset) to AMF panel.</li> <li>Power cables connected to terminals board (internal).</li> </ul>	
<p>* <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.</p>			

**GENSET SUPPLEMENTS (ONLY AVAILABLE WHEN ORDERED)**

 <b>DCC: DIFFERENT CANOPY COLOUR.</b>
 <b>PHS: PREHEATING SYSTEM.</b> Only available for <b>automatic</b> version.

**ACCESSORIES**

<b>ACCESSORIES</b>	<b>LOAD TRANSFER SWITCH PANEL.</b>		<b>GBW15Y</b>	<b>GBW22Y</b>
	 <p>Load transfer switch panel built in a metal cabinet and supplied loose from the genset.</p>	<b>Change over contactors</b>	<b>III poles - 45A.</b>	<b>III poles - 63A.</b>
		<b>Connections</b>	<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>	
		<b>Protections</b>	<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.				
	<ul style="list-style-type: none"> <li>• <b>STR: SITE TRAILER.</b> Single axle.</li> </ul>		