


MODEL | MBW15-22 Yanmar


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



| MODEL | | MBW15Y | MBW22Y |
|------------------------------|-----------------|---------------------|---------------------|
| CODE | | TBA | TBA |
| PRIME POWER PRP | kVA (kW) | 13,5 (10,8) | 18,7 (15,0) |
| EMERGENCY POWER LTP | kVA (kW) | 13,8 (11,0) | 20,5 (16,4) |
| Voltage | VAC | 400/231 | 400/231 |
| Frequency | Hz | 50 | 50 |
| Power factor | Cos φ | 0,8 | 0,8 |
| Tank capacity | Litres | 51 | 51 |
| Autonomy (100% load PRP) | h | 14 | 10 |
| 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 | YANMAR | 3TNV88-GGE | 4TNV88-GGE |
| Cooling system | Type | Water | Water |
| Speed | r.p.m. | 1.500 | 1.500 |
| Displacement | c.c. | 1.642 | 2.190 |
| Cylinders and disposition | n° disp. | 3 L | 4 L |
| Aspiration | Type | Natural | Natural |
| Power (net) - 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 |
| ALTERNATOR | STAMFORD | PI044F | PI144D |
| Insulation | Class | H | H |
| IP degree of protection | Type | IP23 | IP23 |
| Voltage regulation | Type | Electronic | Electronic |

| MANUAL CONTROL PANEL (MCP) | | MBW15Y | MBW22Y |
|---|--------------------------------------|--|--------|
|  <p>Manual control panel, mounted on the genset and complete of: instrumentation, protection and sockets.</p> | Instrumentation (analogue) | <ul style="list-style-type: none"> • Voltmeter. • Ammeter. • Hours-counter. | |
| | Commands | <ul style="list-style-type: none"> • Start and stop selector switch with key: OFF - ON* - START. • Emergency stop button. | |
| | Protections with alarm | <ul style="list-style-type: none"> • Engine protection: battery charger failure, low oil pressure, high engine temperature. | |
| | Protections with shutdown | <ul style="list-style-type: none"> • Engine protection: battery charger failure, low oil pressure, high engine temperature. • Circuit breaker protection: III poles. • Differential protection. | |
| | Output sockets | <ul style="list-style-type: none"> 1 x 400V/32A 3P+N+T CE. 1 x 400V/16A 3P+N+T CE. 2 x 230V/16A 2P+T CE. 1 x 230V/16A SCHUKO. | |
| <p>ON*: 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> | | | |




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

| AUTOMATIC CONTROL PANEL (ACP) | | MBW15Y | MBW22Y |
|---|--------------------------------------|--|--------|
|  <p>Automatic control panel mounted on the genset, complete with digital control unit AMF-26P for monitoring, control and protection of the generating set.</p> | Instrumentation (analogue) | <ul style="list-style-type: none"> • Generating set voltage. • Generating set frequency. • Generator set current. • Battery voltage. • Hours-counter. • Mains voltage. | |
| | Commands and others | <ul style="list-style-type: none"> • Selector switch with six positions: Automatic test - Automatic starting - Engine locked - Mains contactor forced - * Manual starting - Genset contactor forced. • Push-buttons: start/stop, up/down selection, reset. • Emergency stop button. • Remote starting availability. • Automatic battery charger. | |
| | Protections with alarm | <ul style="list-style-type: none"> • Engine protection: low oil pressure, high engine temperature. • Genset protection: under/over voltage, overload, battery charger failure, battery voltage out of limits, under/over frequency, start failure. | |
| | Protections with shutdown | <ul style="list-style-type: none"> • Engine protection: low oil pressure, high engine temperature. • Genset protection: under/over voltage, overload, battery charger failure, battery voltage out of limits, under/over frequency, start failure. • Circuit breaker protection: III poles. • Differential protection. | |
| | Output and sockets | <ul style="list-style-type: none"> • Plinth row for connection from ACP to LTS panel. <p style="text-align: center;">1 x 400V/32A 3P+N+T CE</p> | |
| <p>* Manual Starting: 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)

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| SUP. | > PHS: COOLANT PREHEATING SYSTEM. Only available for automatic version. |
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ACCESSORIES

| > LOAD TRANSFER SWITCH PANEL. | | MBW15Y | MBW22Y |
|---|-------------------------------|---|---|
|  | Change over contactors | IV poles - 20A. | IV poles - 32A. |
| | Connections | <ul style="list-style-type: none"> • Plinth row for connection from ACP to LTS panel. • Terminals board for power cables connection (Genset-Mains-Load). | |
| | Protections | <ul style="list-style-type: none"> • Contactors mechanically and electrically interlocked. • Emergency stop button. | |
| Load transfer switch panel built in a metal cabinet and supplied loose from the genset. | | 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. | |
| > STR: SITE TRAILER. Single axle. | | |  |
| > RTR: ROAD TRAILER (only for Spanish market). Single axle. | | |  |

MODEL | MBW30-45Y

- > New **YANMAR Diesel engine**.
- > **STAMFORD synchronous alternator**.
- > **Water cooling system**.
- > **Central lifting point (lifting eye)**.
- > **Residential exhaust silencer**.
- > **Set easily transportable with hand pallet**.
- > **Complete with engine and battery liquids**.




| MODEL | | MBW30Y | MBW45Y |
|------------------------------|-----------------|---------------------|---------------------|
| CODE | | TBA | TBA |
| PRIME POWER PRP | kVA (kW) | 32,3 (25,8) | 44,0 (35,2) |
| EMERGENCY POWER LTP | kVA (kW) | 33,0 (26,4) | 45,0 (36,0) |
| Voltage | VAC | 400/231 | 400/231 |
| Frequency | Hz | 50 | 50 |
| Power factor | Cos φ | 0,8 | 0,8 |
| Tank capacity | Litres | 51 | 51 |
| Autonomy (100% load PRP) | h | 6,3 | 4,4 |
| Acoustic power | LWA | 92 | 92 |
| Acoustic pressure at 7m | dB(A) | 67 | 67 |
| Dimensions (LxWxH) | mm | 2.000 x 920 x 1.300 | 2.000 x 920 x 1.300 |
| Weight | kg | 810 | 879 |
| DIESEL ENGINE | YANMAR | 4TNV98 | 4TNV98T |
| Cooling system | Type | Water | Water |
| Speed | r.p.m. | 1.500 | 1.500 |
| Displacement | c.c. | 3.319 | 3.319 |
| Cylinders and disposition | n° disp. | 4 L | 4 L |
| Aspiration | Type | Natural | Turbo |
| Power (net) - PRP | kWm | 34 | 41 |
| Fuel consumption (100% load) | l/h | 8,1 | 11,6 |
| Specific consumption PRP | g/kWh | 224 | 238 |
| Electric circuit | VDC | 12 | 12 |
| Engine governor (standard) | Type | Mechanical | Mechanical |
| ALTERNATOR | STAMFORD | PI 144 G | PI 144 J |
| Insulation | Class | H | H |
| IP degree of protection | Type | IP23 | IP23 |
| Voltage regulation | Type | Electronic | Electronic |

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

| MANUAL CONTROL PANEL (MCP) | | MBW30Y | MBW45Y | | | | | | | | | |
|---|-----------------------------------|--|-------------------------|-------------------------|-------------------------|-------------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------|----------------------|
| <p>Manual control panel, mounted on the genset and complete of: instrumentation, protection and sockets.</p> | Instrumentation (analogue) | <ul style="list-style-type: none"> • Voltmeter. • Ammeter. • Hours-meter. | | | | | | | | | | |
| | Commands and others | <ul style="list-style-type: none"> • Start and stop selector switch with key: OFF - ON* - START. • Emergency stop button. | | | | | | | | | | |
| | Protections with alarm | <ul style="list-style-type: none"> • Engine protection: battery charger failure, low oil pressure, high engine temperature. | | | | | | | | | | |
| | Protections with shutdown | <ul style="list-style-type: none"> • Engine protection: battery charger failure, low oil pressure, high engine temperature. • Circuit breaker protection: III poles. • Differential protection. | | | | | | | | | | |
| | Output sockets | <table border="0"> <tr> <td>1 x 400V/63A 3P+N+T CE.</td> <td>1 x 400V/63A 3P+N+T CE.</td> </tr> <tr> <td>1 x 400V/32A 3P+N+T CE.</td> <td>1 x 400V/32A 3P+N+T CE.</td> </tr> <tr> <td>1 x 230V/16A 2P+T CE.</td> <td>1 x 230V/16A 2P+T CE.</td> </tr> <tr> <td>1 x 230V/16A 2P+T CE.</td> <td>1 x 230V/16A 2P+T CE.</td> </tr> <tr> <td>1 x 230V/16A SCHUKO.</td> <td>1 x 230V/16A SCHUKO.</td> </tr> </table> | 1 x 400V/63A 3P+N+T CE. | 1 x 400V/63A 3P+N+T CE. | 1 x 400V/32A 3P+N+T CE. | 1 x 400V/32A 3P+N+T CE. | 1 x 230V/16A 2P+T CE. | 1 x 230V/16A 2P+T CE. | 1 x 230V/16A 2P+T CE. | 1 x 230V/16A 2P+T CE. | 1 x 230V/16A SCHUKO. | 1 x 230V/16A SCHUKO. |
| 1 x 400V/63A 3P+N+T CE. | 1 x 400V/63A 3P+N+T CE. | | | | | | | | | | | |
| 1 x 400V/32A 3P+N+T CE. | 1 x 400V/32A 3P+N+T CE. | | | | | | | | | | | |
| 1 x 230V/16A 2P+T CE. | 1 x 230V/16A 2P+T CE. | | | | | | | | | | | |
| 1 x 230V/16A 2P+T CE. | 1 x 230V/16A 2P+T CE. | | | | | | | | | | | |
| 1 x 230V/16A SCHUKO. | 1 x 230V/16A SCHUKO. | | | | | | | | | | | |
| <p>ON*: 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)

| AUTOMATIC CONTROL PANEL (ACP) | | MBW30Y | MBW45Y |
|--|--|--|------------------------|
|  <p>Automatic control panel mounted on the genset, complete with digital control unit AMF-26P for monitoring, control and protection of the generating set.</p> | Digital instrumentation through AMF-26P control unit. | <ul style="list-style-type: none"> Generating set voltage (3 phases). Mains voltage. Generating set frequency. Generating set current (3 phases). Battery voltage. Power (kVA - kW - kVAr). Power factor Cos φ. Hours-counter. Engine speed r.p.m. Fuel level (%). Engine temperature (depending on model). | |
| | Commands and others | <ul style="list-style-type: none"> Four operation modes: OFF - Manual starting - Automatic starting - Automatic test. Push-buttons for forcing Mains contactor or Genset contactor. Push-buttons: start/stop, fault reset, up/down/page/enter selection. Emergency stop button installed on canopy side. Remote starting inhibition availability. Acoustic alarm. Automatic battery charger. RS232 Communication port. Sattable PASSWORD for protection level. DC system disconnection switch. | |
| | Protections with alarm | <ul style="list-style-type: none"> Engine protections: low oil pressure, high engine temperature, low fuel level. Genset protections: under/over voltage, overload, under/over frequency, starting failure, under/over battery voltage. | |
| | Protections with shutdown | <ul style="list-style-type: none"> Engine protections: low fuel level, low oil pressure, high engine temperature, Genset protection: under/over voltage, overload, under/over battery voltage, battery charger failure. Circuit breaker protection: III poles. Differential protection by means of the control unit. | |
| | Output and sockets | <ul style="list-style-type: none"> Plinth row for connection from ACP to LTS panel. | |
| | | 1 x 400V/63A 3P+N+T CE | 1 x 400V/63A 3P+N+T CE |
| <p>* Manual Starting: 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)

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| > | PHS: COOLANT PREHEATING SYSTEM. |
|---|--|

ACCESSORIES

| > LOAD TRANSFER SWITCH PANEL. | | MBW30Y | MBW45Y |
|--|---|--|------------------------|
|  | Change over contactors | IV poles - 45A. | IV poles - 90A. |
| | Connections | <ul style="list-style-type: none"> Plinth row for connection from ACP to LTS panel. Terminals board for power cables connection (Genset-Mains-Load). | |
| | Protections | <ul style="list-style-type: none"> Contactors mechanically and electrically interlocked. Emergency stop button. | |
| <p>Load transfer switch panel built in a metal cabinet and supplied loose from the genset.</p> | <p>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.</p> | | |
| > | STR: SITE TRAILER. Single axle. |  | |
| > | RTR: ROAD TRAILER (only for Spanish market). Single axle. |  | |
| > | <p>HLT: HYDRAULIC LIGHTING TOWER COMPLETE WITH SITE TRAILER. It can be supplied with two different types of light:</p> <ul style="list-style-type: none"> Lights of quartz-iodine halogen (6 1.500) IP55. Lighting capacity: 200.000 lumen approx. Lights of metal halide (6 400 W) IP55. Lighting capacity: 200.000 lumen approx. <p>It is also equipped with 0,55kW electric motor, control panel (with circuit breaker protection) and hydraulic device to control the 9m extensible tower.</p> | | |