

**MODEL | MBW30-45**


- > New PERKINS 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		MBW30	MBW45
CODE		SB260TPA	SB450TPA
PRIME POWER PRP	kVA (kW)	29,0 (23,6)	44,0 (35,2)
EMERGENCY POWER LTP	kVA (kW)	30,0 (24,0)	45,0 (36,0)
Voltage	VAC	400/231 Three phases	400/231 Three phases
Frequency	Hz	50	50
Power factor	Cos φ	0,8	0,8
Tank capacity	Litres	51	51
Autonomy ( 100% load PRP)	h	7,1	4,8
Acoustic power	LWA	92	89
Acoustic pressure at 7m	dB(A)	67	64
Dimensions (LxWxH)	mm	2.000 x 920 x 1.300	2.000 x 920 x 1.300
Weight	kg	875	960
<b>DIESEL ENGINE</b>	<b>PERKINS</b>	<b>1103A-33G</b>	<b>1103A-33TG1</b>
Cooling system	Type	Water	Water
Speed	r.p.m.	1.500	1.500
Displacement	c.c.	3.300	3.300
Cylinders and disposition	n° disp.	3 L	3 L
Aspiration	Type	Natural	Turbo
Power (net) - PRP	kWm	28	41
Fuel consumption (100% load)	l/h	7,1	10,7
Specific consumption PRP	g/kWh	211	215
Electric circuit	VDC	12	12
Engine governor (standard)	Type	Mechanical	Mechanical
<b>ALTERNATOR</b>	<b>STAMFORD</b>	<b>BCI 184 F</b>	<b>BCI 184 J</b>
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)		MBW30	MBW45									
<p>Manual control panel, mounted on the genset and complete of: instrumentation, protection and sockets.</p>	<b>Instrumentation (analogue)</b>	<ul style="list-style-type: none"> <li>• Voltmeter.</li> <li>• Ammeter.</li> <li>• Hours-meter.</li> </ul>										
	<b>Commands and others</b>	<ul style="list-style-type: none"> <li>• Start and stop 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 shutdown</b>	<ul style="list-style-type: none"> <li>• Engine protection: battery charger failure, low oil pressure, high engine temperature.</li> <li>• Circuit breaker protection: IV poles.</li> <li>• Differential protection.</li> </ul>										
	<b>Output sockets</b>	<table border="1"> <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.
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<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>												



AUTOMATIC CONTROL PANEL (ACP)		MBW30	MBW45
 <p>Automatic control panel mounted on the genset, complete with digital control unit AC02 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 - * <b>Manual starting</b> - 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: IV poles.</li> <li>Differential protection.</li> </ul>	
	<b>Output and sockets</b>	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>* <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)		MBW30	MBW45
 <p>Automatic control panel for automatic starting by Mains failure. Delivered loose from the genset, and complete with digital control unit AC02 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 - * <b>Manual starting</b> - 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>	IV poles - 45A.	IV poles - 90A.
	<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 )**

SUPPLEMENTS	
>	DCC: DIFFERENT CANOPY COLOUR.
>	PHS: COOLANT PREHEATING SYSTEM.

**ACCESSORIES**

> LOAD TRANSFER SWITCH PANEL.		MBW30	MBW45
	<b>Change over contactors</b>	IV poles - 45A.	IV poles - 90A.
	<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>	
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.	