



REF. GDS PCS.16

# MODEL | GSW110D


- DEUTZ Diesel engine.
- Water cooling system.
- Internal residential muffler.
- Detachable central lifting eye.
- Baseframe capable to be moved with hand pallet truck.
- Complete with engine and battery liquids.
- Manual pump oil draining pipe.
- Fully bundled / Completely sealed baseframe.
- Rental kit as option (POWER ON RENT).




MODEL		GSW110D		
CODE		SC101TDA		
TECHNICAL FEATURES	PRIME POWER PRP	kVA (kW)	102 (82,0)	
	EMERGENCY POWER LTP	kVA (kW)	108 (86,5)	
	Voltage	Volt	400/230	
	Frequency	Hz	50	
	Power factor	Cos φ	0,8	
	Fuel capacity	Litres	340	
	Autonomy (100% load PRP)	h	15,3	
	Acoustic power	LWA	97	
	Acoustic pressure at 7m	dB(A)	72	
	Dimensions (LxWxH)	mm	3.000 x 1.150 x 1.680	
	Dry weight	kg	1.900	
	<b>DIESEL ENGINE</b>	<b>DEUTZ</b>	<b>BF4M 1013EC</b>	
	Cooling system	Type	Water	
	Speed	rpm	1500	
	Displacement	c.c.	4.760	
	Cylinders and disposition	n° disp.	4 L	
	Aspiration	Type	Turbo - Intercooler	
	Engine power PRP	kWm	91,1	
	Fuel consumption (100% load)	l/h	22,2	
	Specific consumption PRP	g/kWh	205	
	Engine governor (standard)	Type	Mechanical	
	Electrical system (DC)	Volt	12	
	<b>ALTERNATOR (1)</b>	<b>STAMFORD</b>	<b>UCI 274 C</b>	
	Insulation	Class	H	
	Mechanical degree of protection	Type	IP23	
	Voltage regulation	Type (%)	Electronic (± 1,5)	


(1) Depending on availability, MeccAlte alternator could be installed as variant, model ECP 34 2S (featuring IP21 and ±1% voltage regulation)

TECHNICAL CHARACTERISTICS LISTED ARE NOT INCLUSIVE OF ANY PRODUCT CUSTOMIZATIONS AND THE PRODUCER RESERVES THE RIGHT TO MODIFY THEM FOR INNOVATIONS WITHOUT PRIOR NOTICE


MANUAL CONTROL PANEL (MCP)		GSW110D	
MANUAL CONTROL PANEL (MCP)	 <p>Manual control panel mounted on the genset, complete with digital control unit BE23 for monitoring, control and protection of the generating set.</p> <p><i>This configuration is in modification process by other of similar features.</i></p>	<b>Digital instrumentation</b> through BE23 control unit.	<ul style="list-style-type: none"> <li>• Generating set voltage (3 phases).</li> <li>• Generating set frequency.</li> <li>• Generating set current (3 phases).</li> <li>• Battery voltage.</li> <li>• Power ( kVA - kW - kVAr).</li> <li>• Power factor Cos φ.</li> <li>• Hours-counter.</li> <li>• Fuel level (%).</li> <li>• Engine temperature.</li> </ul>
		<b>Commands and others</b>	<ul style="list-style-type: none"> <li>• DC supply selector switch.</li> <li>• Push-buttons: start/stop.</li> <li>• Emergency stop button.</li> <li>• Remote starting availability by means of the control unit.</li> </ul>
		<b>Protections with alarm</b>	<ul style="list-style-type: none"> <li>• Engine protections: low fuel level, low oil pressure, high engine temperature.</li> <li>• Genset protections: over-frequency, battery voltage out of limits.</li> </ul>
		<b>Protections with shutdown</b>	<ul style="list-style-type: none"> <li>• Engine protections: low fuel level, low oil pressure, high engine temperature.</li> <li>• Genset protections: under/over voltage, over-load, under/over frequency, under/over battery voltage.</li> <li>• Circuit breaker protection: III poles.</li> <li>• Differential protection.</li> </ul>
		<b>Output</b>	<ul style="list-style-type: none"> <li>• Power cables connection to terminals board (external).</li> </ul>

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AUTOMATIC CONTROL PANEL (ACP)		GSW110D	
AUTOMATIC CONTROL PANEL (ACP)		<b>Digital instrumentation</b> through AC01 control unit.	<ul style="list-style-type: none"> <li>• Generating set voltage (3 phases).</li> <li>• Mains voltage.</li> <li>• Generating set frequency.</li> <li>• Generating set current (3 phases).</li> <li>• Battery voltage.</li> <li>• Power (kVA - kW - kVAr).</li> <li>• Power factor Cos φ.</li> <li>• Hours-counter.</li> <li>• Engine speed r.p.m.</li> <li>• Fuel level (%).</li> <li>• Engine temperature.</li> </ul>
	Automatic control panel mounted on the genset, complete with digital control unit AC01 for monitoring, control and protection of the generating set.	<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 y means of the control unit.</li> <li>• Acoustic alarm.</li> <li>• Automatic battery charger.</li> </ul>
		<b>Protections with alarm</b>	<ul style="list-style-type: none"> <li>• Engine protections: low fuel level, low oil pressure, high engine temperature.</li> <li>• Genset protections: under/over voltage, overload, under/over frequency, starting failure, under/over battery voltage, battery charger failure.</li> </ul>
		<b>Protections with shutdown</b>	<ul style="list-style-type: none"> <li>• Engine protections: low fuel level, low oil pressure, high engine temperature,</li> <li>• Genset protection: under/over voltage, overload, under/over battery voltage, battery charger failure.</li> <li>• Circuit breaker protection: III poles.</li> <li>• Differential protection.</li> </ul>
		<b>Output</b>	<ul style="list-style-type: none"> <li>• Plinth row for connection from ACP to LTS panel.</li> <li>• Power cables connection to terminals board (external).</li> </ul>

AUTOMATIC CONTROL PANEL (AMF)		GSW110D	
AUTOMATIC CONTROL PANEL (AMF)		<b>Digital instrumentation</b> through AC01 control unit.	<ul style="list-style-type: none"> <li>• Generating set voltage (3 phases).</li> <li>• Mains voltage.</li> <li>• Generating set frequency.</li> <li>• Generating set current (3 phases).</li> <li>• Battery voltage.</li> <li>• Power (kVA - kW - kVAr).</li> <li>• Power factor Cos φ.</li> <li>• Hours-counter.</li> <li>• Engine speed r.p.m.</li> <li>• Fuel level (%).</li> <li>• Engine Temperature.</li> </ul>
	Automatic control panel for automatic starting by Mains failure. Delivered loose from the genset, and complete with digital control unit AC01 for monitoring, control and protection of the generating set.	<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>• Acoustic alarm.</li> <li>• Automatic battery charger.</li> </ul>
		<b>Change over contactors Mains/Genset</b>	IV poles - 200A
		<b>Protections with alarm</b>	<ul style="list-style-type: none"> <li>• Engine protections: low fuel level, low oil pressure, high engine temperature.</li> <li>• Genset protections: under/over voltage, overload, under/over frequency, starting failure, under/over battery voltage, battery charger failure.</li> </ul>
		<b>Protections with shutdown</b>	<ul style="list-style-type: none"> <li>• Engine protections: low fuel level, low oil pressure, high engine temperature,</li> <li>• Genset protection: under/over voltage, overload, under/over battery voltage, battery charger 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>

**CONTROL PANEL SUPPLEMENTS (ONLY AVAILABLE WHEN ORDERED)**

MAP: MANUAL ANALOGUE CONTROL PANEL.			
CONTROL PANEL SUPPLEMENTS		<b>Instrumentation (analogue)</b>	<ul style="list-style-type: none"> <li>• Voltmeter with selector switch (3 phases).</li> <li>• Frequency meter.</li> <li>• Ammeter with selector switch (3 phases).</li> <li>• Hours-counter.</li> <li>• Fuel level indicator.</li> <li>• Oil pressure indicator.</li> <li>• Engine temperature indicator.</li> </ul>
	Manual control panel mounted on the genset, with analogue instrumentation, and protected through door with lockable handle.	<b>Commands and others</b>	<ul style="list-style-type: none"> <li>• Start/stop selector switch with key.</li> <li>• Emergency stop button.</li> </ul>
		<b>Protections with alarm</b>	<ul style="list-style-type: none"> <li>• Engine protections: low fuel level, low oil pressure, high engine temperature, battery charger failure.</li> </ul>
		<b>Protections with shutdown</b>	<ul style="list-style-type: none"> <li>• Engine protection unit: low fuel level, low pressure oil, high engine temperature, battery charger failure.</li> <li>• Circuit breaker protection: III poles.</li> <li>• Differential protection.</li> </ul>
		<b>Output</b>	<ul style="list-style-type: none"> <li>• Power cables connection to terminals board (external).</li> </ul>

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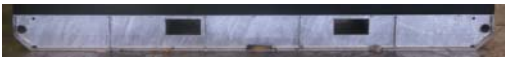
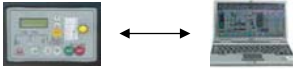

<b>CONTROL PANEL SUPPLEMENTS</b>	<input type="checkbox"/> <b>SKB: SOCKETS KIT B WITH 5 SOCKETS.</b>	1 x 400V/63A 3P+N+T CE.
		1 x 400V/32A 3P+N+T CE.
		1 x 400V/16A 3P+N+T CE.
		1 x 230V/16A 2P+T CE.
		1 x 230V/16A Schuko.
<input type="checkbox"/> <b>RSS: REMOTE START/STOP.</b> Only for MAP.		
<input type="checkbox"/> <b>TIF: IV POLES CIRCUIT BREAKER INSTEAD OF III POLES.</b>		

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

<b>GENSET SUPPLEMENTS</b>	<input type="checkbox"/> <b>APM: PMG FOR STAMFORD ALTERNATOR + MX321 AVR.</b> Only with Stamford configuration					
	<input type="checkbox"/> <b>AFP: AUTOMATIC FUEL TRANSFER PUMP.</b>					
	<input type="checkbox"/> <b>DCC: DIFFERENT CANOPY COLOUR.</b>					
	<input type="checkbox"/> <b>EEG: ENGINE ELECTRONIC SPEED GOVERNOR.</b> (EMR type)					
	<input type="checkbox"/> <b>KRT: RENTAL KIT.</b> Complete of:					
	Battery switch.					
	Fuel filter water separator.					
	Three way valve.					
	Earth rod.					
	<input type="checkbox"/> <b>Sockets kit (5 sockets).</b>	<table border="1"> <tr> <td>1 x 400V/63A 3P+N+T CE.</td> </tr> <tr> <td>1 x 400V/32A 3P+N+T CE.</td> </tr> <tr> <td>1 x 400V/16A 3P+N+T CE.</td> </tr> <tr> <td>1 x 230V/16A 2P+T CE.</td> </tr> <tr> <td>1 x 230V/16A Schuko.</td> </tr> </table>	1 x 400V/63A 3P+N+T CE.	1 x 400V/32A 3P+N+T CE.	1 x 400V/16A 3P+N+T CE.	1 x 230V/16A 2P+T CE.
1 x 400V/63A 3P+N+T CE.						
1 x 400V/32A 3P+N+T CE.						
1 x 400V/16A 3P+N+T CE.						
1 x 230V/16A 2P+T CE.						
1 x 230V/16A Schuko.						
<input type="checkbox"/> <b>PHS: COOLANT PREHEATING SYSTEM.</b>						



**ACCESSORIES**

<b>ACCESSORIES</b>	<input type="checkbox"/> <b>LOAD TRANSFER SWITCH PANEL.</b>	<p style="text-align: center;"><b>GSW110D</b></p> <p style="text-align: center;"><b>IV poles - 200A</b></p>	
	 Load transfer switch panel built in a metal cabinet and supplied loose from the genset.	<b>Change over contactors</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.		
<input type="checkbox"/> <b>GSB: GALVANIZED SKIDS.</b> Heavy duty galvanized skids to be installed under the genset. Easily transportable with fork lift.			
<input type="checkbox"/> <b>RCG: REMOTE CONTROL BY GSM KIT</b> (kit for genset management and control by remote PC; communication available by means of RS232 directly to PC or through GSM modem). Available only on the automatic versions.			
<input type="checkbox"/> <b>STR: SITE TRAILER.</b> Single axle.			
<input type="checkbox"/> <b>RTR: ROAD TRAILER (homologation only for Spanish territories).</b> Double axle.	