REF. GDS PCS.17

## MODEL | GSW145-170D

- DEUTZ Diesel engine.
- Water cooling system with radiator.
- Internal residential silencer.
- Detachable central lifting eye.
- Complete with engine and battery liquids.
- Manual oil draining pump.
- Fully bunded / Completly sealed baseframe.
- Rental kit as option (POWER ON RENT).



TECHNICAL GUIDE



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MODE		GSW145D	GSW170D		
CODE		SC131TDA	SC161TDA		
PRIME POWER PRP	kVA (kW)	135 (108)	<b>159</b> (127)		
EMERGENCY POWER L	ΓP kVA (kW)	142 (113)	<b>167</b> (134)		
Three phase voltage	Volt	400/230	400/230		
Frequency	Hz	50	50		
Power Factor	Cos φ	0,8	0,8		
Fuel capacity	Litres	340	340		
Autonomy (100% load PR	lP) h	11,6	10,4		
Acoustic power	LWA	97	97		
Acoustic pressure level at	7m dB(A)	72	72		
Dimensions (LxWxH)	mm	3.400 x 1.250 x 1.680	3.400 x 1.250 x 1.680		
Dry weight  DIESEL ENGINE  Cooling system	kg	2.180	2.250		
DIESEL ENGINE	DEUTZ	BF6M 1013E	BF6M 1013EC		
	Туре	Water	Water		
Speed Displacement Cylinders and disposition Assiration	r.p.m.	1.500	1.500		
Displacement	c.c.	7.150	7.150		
Cylinders and disposition	n° disp.	6 L	6 L		
Aspiration	Туре	Turbo	Turbo - Intercooler		
Engine power PRP	kWm	117,8	138,1		
Fuel consumption (100% lo	ad) I/h	29,2	32,7		
Specific consumption PRI	g/kWh	208	199		
Engine governor (standar	d) Type	Mechanical	Mechanical		
Electrical system (DC)	Volt	12	12		
ALTERNATOR (1)	STAMFORD	UCI 274 E	UCI 274 F		
Insulation	Class	Н	Н		
Mechanical degree of protect	ion Type	IP23	IP23		
Voltage regulation	Type (%)	Eletronic (± 1,5)	Eletronic (± 1,5)		

(1) Depending on availability, MeccAlte alternator could be installed as variant, models ECP34 1L and ECP34 2L respectively (featuring IP21 and ±1% voltage regulation)

	MANUAL CONTROL PAR	NEL (MCP)	GSW145D	GSW170D
MANUAL CONTROL PANEL (MCP)	Manual control panel mounted on the genset, complete with digital control unit BE23 for monitoring, control and protection of the generating set.  This configuration is in modification process by other of similar features.	control unit.	<ul> <li>Genereting 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>	
		Commands and others	<ul> <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>	t.
		alarm	Engine protections: low fuel level, low oil pressure, high     Genset protections: over-frequency, battery voltage out	•
		Protections with shutdown	Engine protections: low fuel level, low oil pressure, high     Genset protections: under/over voltage, over-load, under     Circuit breaker protection: III poles.     Differential protection.	•
		Output	• Power cables connection to terminals board (external).	

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	AUTOMATIC CONTROL PANEL (ACP)		GSW145D	GSW170D
AUTOMATIC CONTROL PANEL (ACP)	Automatic control panel mounted on the genset, complete with digital control unit ACO1 for monitoring, control and protection of the generating set.	Digital instrumentation through AC-01 control unit.	<ul> <li>Genereting 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>	
		Commands and others	<ul> <li>Selector switch with six positions: Automatic test - Automatic te</li></ul>	
		Protections with alarm	<ul> <li>Engine protections: low fuel level, low oil pressure, hig</li> <li>Genset protections: under/over voltage, overload, under voltage, battery charger failure.</li> </ul>	
		Protections with shutdown	<ul> <li>Engine protections: low fuel level, low oil pressure, high</li> <li>Genset protection: under/over voltage, overload, under</li> <li>Circuit breaker protection: III poles.</li> <li>Differential protection.</li> </ul>	
		Output	<ul><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)		GSW145D	GSW170D
C CONTROL PANEL (AMF)	Automatic control panel for automatic starting by Mains failure. Delivered loose from the genset, and complete with digital control unit ACO1 for monitoring, control and protection of the generating set.	Digital instrumentation through AC01 control unit.	<ul> <li>Genereting 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>	
		commands and	<ul> <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>	
AUTOMATIC		Change over contactors Mains/Genset	IV poles - 200A	IV poles - 325A
		alarm	<ul> <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>	
		Protections with	<ul> <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>	
		Output	<ul> <li>Plinth row for connection from pre-wired panel (mounte</li> <li>Power cables connected to terminals board (internal).</li> </ul>	ed on the genset) to AMF panel.

## CONTROL PANEL SUPPLEMENTS (ONLY AVAILABLE WHEN ORDERED)

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	MAP: MANUAL ANALOGUE CONTROL PANEL.			
CONTROL PANEL SUPPLEMENTS			Instrumentation (analogue)	Voltmeter with selector switch (3 phases). Frequency meter. Ammeter with selector switch (3 phases). Hours-counter. Fuel level indicator. Oil pressure indicator. Engine temperature indicator.
	ľ		Commands and others	Start/stop selector switch with key.     Emergency stop button.
		Manual control panel mounted on the genset, with analogue instrumentation, and protected through door with lockable handle.	Protections with alarm	Engine protections: low fuel level, low oil pressure, high engine temperature, battery charger failure.
			Protections with shutdown	<ul> <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>
			Output	Power cables connection to terminals board (external).

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PHS: COOLANT PREHEATING SYSTEM.

GEN	GENSET SUPPLEMENTS (ONLY AVAILABLE WHEN ORDERED)					
	•	GPA: ALTERNATOR IP23 PROTECTION. Only with MeccAlte configuration				
	•	APM: PMG FOR STAMFORD ALTERNATOR + MX321 AVR. Only with Stamford configuration				
	•	AFP: AUTOMATIC FUEL TRANSFER PUMP.				
	•	DCC: DIFFERENT CANOPY COLOUR.				
NTS	•	EEG: ENGINE ELECTRONIC SPEED GOVERNOR ON GSW145D/70D. (EMR type)				
SUPPLEMENTS	•	KRT: RENTAL KIT. Complete of:				
JPPI	Bat	attery switch.				
	Fue					
GENSET	Thr	ee way valve.				
GEI	Ear	th rod.	Powertunkent			
			1 x 400V/63A 3P+N+T CE.			
	۲.,	leate leit (F appleate)	1 x 400V/32A 3P+N+T CE.			
	500	kets kit (5 sockets).	1 x 400V/16A 3P+N+T CE.			
			1 x 230V/16A 2P+T CE.			

1 x 230V/16A Schuko.

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ACCESSORIES						
	0	LOAD TRANSFER SWITC	CH PANEL	GSW145D	GSW170D	
		pad transfer switch panel	Change over contactors	IV poles - 200A	IV poles - 325A	
			Connections	Plinth row for connection from ACP to LTS panel. Terminals board for power cables connection (Genset-Ma	nins-Load).	
			Protections	Contactors mechanically and electrically interlocked.     Emergency stop button.		
IES			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.			
ACCESSORIES	GSB: GALVANIZED SKIDS. Heavy duty galvanized skids to be installed under the genset. Easily transportable with fork lift.					
	٩	RCG: REMOTE CONTROL BY GSM KIT (kit for genset management and control by remote PC; comunication available by means of RS232 directly to PC or through GSM modem). Available only on the automatic versions.				
	٠	STR: SITE TRAILER. Double axle.				
	•	RTR: ROAD TRAILER (h	omolgation only fo	r <b>Spanish territories)</b> . Double axle.	2000	

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