

MODEL | **MSW195-220**


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



MODEL		MSW195	MSW220
CODE		SC101TDA	SC161TDA
PRIME POWER PRP	kVA (kW)	186,0 (149,0)	208,0 (166,0)
EMERGENCY POWER LTP	kVA (kW)	194,0 (155,0)	220,0 (176,0)
Three phase voltage	Volt	400/230	400/230
Frequency	Hz	50	50
Power Factor	Cos φ	0,8	0,8
Fuel capacity	Liter	350	350
Autonomy (100% load PRP)	h	8,0	7,1
Acoustic power	LWA	97	97
Acoustic pressure level at 7m	dB(A)	72	72
Dimensions (LxWxH)	mm	3400x1250x2070	3400x1250x2070
Weight	kg	2.700	2.750
DIESEL ENGINE	DEUTZ	BF6M 1013FC G2	BF6M 1013FC G3
Cooling system	Type	Water	Water
Speed	rpm	1.500	1.500
Displacement	c.c.	7.150	7.150
Cylinders and disposition	n° disp.	6 L	6 L
Aspiration	Type	Turbo - Intercooler	Turbo - Intercooler
Engine power PRP	kWm	161,6	178,6
Fuel consumption (100% load)	l/h	43,9	49,1
Specific consumption PRP	g/kWh	228	231
Engine governor (standard)	Type	Electronic (EMR)	Electronic (EMR)
SYNCHRONOUS ALTERNATOR	STAMFORD	UCI 274 G	UCI 274 H
Insulation	Class	H	H
Mechanical degree of protection	Type	IP23	IP23
Voltage regulation	Type	Eletronic	Eletronic

TECHNICAL FEATURES

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


MANUAL CONTROL PANEL (MCP)		MSW195	MSW220
 <p>Manual control panel mounted on the genset, complete with digital control unit BE23 for monitoring, control and protection of the generating set.</p>	Digital instrumentation through BE23 control unit.	<ul style="list-style-type: none"> • Generating set voltage (3 phases). • Generating set frequency. • Generating set intensity (3 phases). • Battery voltage. • Power (kVA - kW - kVAr). • Power factor Cos φ. • Hours-counter. • Fuel level (%). • Engine temperature. 	
	Commands and others	<ul style="list-style-type: none"> • DC supply selector switch. • Push-buttons: start/stop. • Emergency stop button. • Remote starting availability. 	
	Protections with alarm	<ul style="list-style-type: none"> • Engine protections: low fuel level, low oil pressure, high engine temperature. • Genset protections: over-frequency, battery voltage out of limits. 	
	Protections with shutdown	<ul style="list-style-type: none"> • Engine protections: low fuel level, low oil pressure, high engine temperature. • Genset protections: under/over voltage, over-load, under/over frequency. • Circuit breaker protection: III poles. • Differential protection. 	
	Output	<ul style="list-style-type: none"> • Power cables connection to terminals board (external). 	

MANUAL CONTROL PANEL (MCP)

AUTOMATIC CONTROL PANEL (ACP)




Automatic control panel mounted on the genset, complete with digital control unit **AC01** for monitoring, control and protection of the generating set.

AUTOMATIC CONTROL PANEL (ACP)		MSW195	MSW220
 <p>Automatic control panel mounted on the genset, complete with digital control unit AC01 for monitoring, control and protection of the generating set.</p>	Digital instrumentation through AC-01 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. 	
	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. • Acoustic alarm. • Automatic battery charger. 	
	Protections with alarm	<ul style="list-style-type: none"> • Engine protections: low fuel level, low oil pressure, high engine temperature. • Genset protections: under/over voltage, overload, under/over frequency, starting failure, under/over battery voltage, battery charger failure. 	
	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. 	
	Output	<ul style="list-style-type: none"> • Plinth row for connection from ACP to LTS panel. • Power cables connection to terminals board (external). 	

AUTOMATIC CONTROL PANEL (AMF)

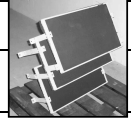


Automatic control panel for automatic starting by Mains failure. Delivered loose from the genset, and complete with digital control unit **AC01** for monitoring, control and protection of the generating set.


AUTOMATIC CONTROL PANEL (AMF)		MSW195	MSW220
 <p>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.</p>	Digital instrumentation through AC01 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. 	
	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. • Acoustic alarm. • Automatic battery charger. 	
	Change over contactors Mains/Genset	IV poles - 325A.	IV poles - 325A.
	Protections with alarm	<ul style="list-style-type: none"> • Engine protections: low fuel level, low oil pressure, high engine temperature. • Genset protections: under/over voltage, overload, under/over frequency, starting failure, under/over battery voltage, battery charger failure. 	
	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. 	
	Output	<ul style="list-style-type: none"> • Plinth row for connection from pre-wired panel (mounted on the genset) to AMF panel. • Power cables connected to terminals board (internal). 	

GENSET SUPPLEMENTS (ONLY AVAILABLE WHEN ORDERED)





GENSET SUPPLEMENTS	>	GPA: ALTERNATOR IP23 PROTECTION. Only with Mecc-Alte configuration.	
	>	AFP: AUTOMATIC FUEL TRANSFER PUMP.	
	>	DCC: DIFFERENT CANOPY COLOUR.	
	>	KRT: RENTAL KIT. Not allowed with PHS or AFP. Complete of:	Battery switch Fuel filter water separator Three way valve Earth rod
	>	PHS: COOLANT PREHEATING SYSTEM.	Sockets kit (5 sockets) 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



CONTROL PANEL SUPPLEMENTS (ONLY AVAILABLE WHEN ORDERED)

CONTROL PANEL SUPPLEMENTS	>	MAP: MANUAL ANALOGUE CONTROL PANEL.	
		 <p>Manual control panel mounted on the genset, with analogue instrumentation, and protected through door with lockable handle.</p>	Instrumentation (analogue) <ul style="list-style-type: none"> • 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.
		Commands and others	<ul style="list-style-type: none"> • Start/stop selector switch with key. • Emergency stop button.
		Protections with alarm	<ul style="list-style-type: none"> • Engine protections: low fuel level, low oil pressure, high engine temperature, battery charger failure.
		Protections with shutdown	<ul style="list-style-type: none"> • Engine protection unit: low fuel level, low pressure oil, high engine temperature, battery charger failure. • Circuit breaker protection: III poles. • Differential protection.
		Output	<ul style="list-style-type: none"> • Power cables connection to terminals board (external).
>	SKB: SOCKETS KIT B WITH 5 SOCKETS.		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.
>	RSS: REMOTE START/STOP. Only for MAP.		
>	TIF: IV POLES CIRCUIT BREAKER INSTEAD OF III POLES.		

ACCESSORIES

ACCESSORIES	>	LOAD TRANSFER SWITCH PANEL.	MSW195	MSW220
		 <p>Load transfer switch panel built in a metal cabinet and supplied loose from the genset.</p>	Change over contactors	IV poles - 325A.
			Connections	IV poles - 325A.
			Protections	<ul style="list-style-type: none"> • Plinth row for connection from ACP to LTS panel. • Terminals board for power cables connection (Genset-Mains-Load). • Contactors mechanically and electrically interlocked. • Emergency stop button.
		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.		
>	GSB: GALVANIZED BASEFRAME. Heavy duty galvanized skid to be installed under the genset. Easily transportable with fork lift and complete with leak proof tray.			
>	RCG: REMOTE CONTROL BY GSM KIT (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.			
>	STR: SITE TRAILER. Single axle for GSW105 and double axle for GSW135-160.			
>	RTR: ROAD TRAILER (only for Spanish market). Double axle.	