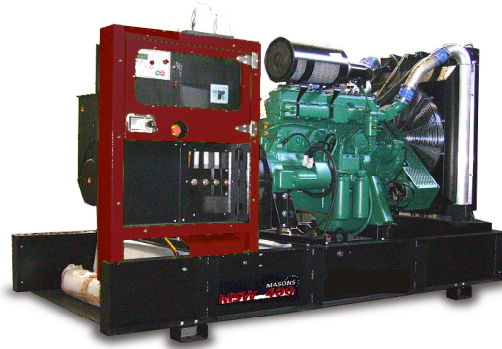


MODEL | **MSW330-590**


- > **VOLVO Diesel engine.**
- > **Water cooling system.**
- > **Industrial muffler.**
- > **Complete with engine and battery liquids.**




MODEL		MSW330	MSW415	MSW450	MSW510	MSW560	MSW590
CODE		SG331TWA	SG371TWA	SG401TWA	SG451TWA	SG501TWA	SG571TWA
PRIME POWER PRP	kVA (kW)	320 (256)	376 (301)	410 (328)	462 (370)	506 (405)	571 (457)
EMERGENCY POWER LTP	kVA (kW)	330 (264)	412 (330)	440 (352)	508 (406)	556 (445)	601 (481)
Voltage	Volt	400/230	400/230	400/230	400/230	400/230	400/230
Frequency	Hz	50	50	50	50	50	50
Power factor	Cos φ	0,8	0,8	0,8	0,8	0,8	0,8
Fuel capacity	Litres	636	636	636	636	636	636
Autonomy (100% load PRP)	h	8,9	7,6	7,0	6,4	5,7	5,0
Dimensions (LxWxH)	mm	3.300x1.400x1.877	3.300x1.400x1.907	3.300x1.400x1.907	3.500x1.500x2.120	3.500x1.500x2.120	3.500x1.500x2.120
Weight	kg	2.800	3.010	3.100	3.600	3.770	3.850
DIESEL ENGINE	VOLVO	TAD941GE	TAD1241GE	TAD1242GE	TAD1640GE	TAD1641GE	TAD1642GE
Cooling system	Type	Water	Water	Water	Water	Water	Water
Speed	rpm	1.500	1.500	1.500	1.500	1.500	1.500
Displacement	c.c.	9.360	12.130	12.130	16.120	16.120	16.120
Cylinders and disposition	n° disp.	6 L	6 L	6 L	6 L	6 L	6 L
Aspiration	Type	Turbo - Intercooler	Turbo - Intercooler	Turbo - Intercooler	Turbo - Intercooler	Turbo - Intercooler	Turbo - Intercooler
Engine power PRP	kWm	279,0	323,0	352,0	393,0	430,0	485,0
Fuel consumption (100% load)	l/h	65,0	76,0	83,0	91,0	101,0	116,0
Specific consumption PRP	g/kWh	200	198	194	194	196	197
Engine governor (standard)	Type	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic
SYNCHRONOUS ALTERNATOR	Brand	Mecc-Alte					
Model		ECO 38 2L	ECO 40 1S	ECO 40 2S	ECO 40 3S	ECO 40 3S	ECO 40 1L
Insulation	Class	H	H	H	H	H	H
Mechanical degree of protection	Type	IP21	IP21	IP21	IP21	IP21	IP21
Voltage regulation	Type	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic

TECHNICAL FEATURES

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

MANUAL CONTROL PANEL (ACP)		MSW330	MSW415	MSW450	MSW510	MSW560	MSW590
<p>AUTOMATIC CONTROL PANEL (ACP)</p>  <p>Manual / Automatic control panel mounted on the genset, protected by a locking door, complete with digital control unit ACP1 for monitoring, control and protection of the generating set.</p>	<p>Digital instrumentation through AC-01 control unit (CAN BUS).</p> <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 (%). • Oil pressure. • Engine temperature. 						
	<p>Commands and others</p> <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. • DC system disconnection key. • Acoustic alarm. • Automatic battery charger. 						
	<p>Protections with alarm</p> <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. • Circuit breaker protection: III poles. • Differential protection. 						
	<p>Protections with shutdown</p> <ul style="list-style-type: none"> • Engine protections: low fuel level, low oil pressure, high engine temperature, low coolant level. • Genset protection: under/over voltage, overload, under/over battery voltage, battery charger failure. 						
	<p>Output</p> <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)		MSW330	MSW415	MSW450	MSW510	MSW560	MSW590	
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.	Digital instrumentation through AC-01 control unit. (CAN BUS)	<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 (%). Oil pressure. 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 - 500A.	IV poles - 700A.	IV poles - 700A.	IV poles - 700A.	IV poles - 1.000A.	IV poles - 1.000A.
	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
	> AFP: AUTOMATIC FUEL TRANSFER PUMP.
	> PHS: COOLANT PREHEATING SYSTEM.

CONTROL PANEL SUPPLEMENTS (ONLY AVAILABLE WHEN ORDERED)

> TIF: IV POLES CIRCUIT BREAKER INSTEAD OF III POLES.
> RSS: REMOTE START & STOP PRE-ARRANGED FREE CONTACTS.

ACCESSORIES

		MSW330	MSW415	MSW450	MSW510	MSW560	MSW590
ACCESSORIES  Load transfer switch panel built in a metal cabinet and supplied loose from the genset.	LOAD TRANSFER SWITCH PANEL.	IV poles - 500A.	IV poles - 700A.	IV poles - 700A.	IV poles - 700A.	IV poles - 1.000A.	IV poles - 1.000A.
	Change over contactors						
	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. 					
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.							
>	FEC: FLEXIBLE EXHAUST COMPENSATOR.						
>	RES: RESIDENTIAL SILENCER.						
>	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 for automatic versions with AC01 control unit.	