

MODEL | MSW65-110

- > New PERKINS Diesel engine.
- > Mecc-Alte synchronous alternator.
- > Water cooling system.
- > Industrial muffler
- > Complete with engine and battery liquids.




MODEL		MSW65P (*)	MSW80P (*)	MSW110P (*)
CODE		TBA	TBA	TBA
PRIME POWER PRP	kVA (kW)	60,7 (48,6)	74,3 (59,4)	103 (82,1)
EMERGENCY POWER LTP	kVA (kW)	66,5 (53,2)	77,7 (62,2)	113 (90,4)
Voltage	VAC	400/231	400/231	400/230
Frequency	Hz	50	50	50
Power factor	Cos φ	0,8	0,8	0,8
Tank capacity	Litres	240	240	240
Autonomy (100% load PRP)	h	17,1	13,1	8,1
Dimensions (LxWxH)	mm	2.200 x 1.000 x 1.620	2.200 x 1.000 x 1.620	2.200 x 1.000 x 1.620
Weight	kg	TBA	TBA	TBA
DIESEL ENGINE	PERKINS	1103A-33TG2	1104A-44TG2	1104C-44TAG2
Cooling system	Type	Water	Water	Water
Speed	r.p.m.	1.500	1.500	1.500
Displacement	c.c.	3.300	4.400	4.400
Cylinders and disposition	n° disp.	3 L	4 L	4 L
Aspiration	Type	Turbocharged	Turbocharged	Turbo - Intercooler
Power (net) - PRP	kWm	54	72	89
Fuel consumption (100% load)	l/h	14,0	18,3	29,6
Specific consumption PRP	g/kWh	219	235	279
Electric circuit	VDC	12	12	12
Engine governor (standard)	Type	Mechanical	Mechanical	Electronic (L-Series)
ALTERNATOR	MECC-ALTE	ECO 32 2L	ECO 32 3L	ECP 34 2S
Insulation	Class	H	H	H
IP degree of protection	Type	IP21	IP21	IP21
Voltage regulation	Type	Electronic (± 1)	Electronic (± 1)	Electronic (± 1)


(*) Only for non mobile applications, according to COM II regulation.

TECHNICAL FEATURES

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

MANUAL CONTROL PANEL (MCP)		MSW65P	MSW80P	MSW110P
<p>Manual control panel mounted on the genset, complete with digital control unit BE23 for monitoring, control and protection of the generating set.</p>	Instrumentation (analogue)	<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, under/over battery voltage. • Circuit breaker protection: III poles. • Differential protection. 		
	Output sockets	<ul style="list-style-type: none"> • Power cables connection directly from circuit breaker. 		


AUTOMATIC CONTROL PANEL (ACP)		MSW65P	MSW80P	MSW110P
 <p>Automatic control panel mounted on the genset behind a lockable door, 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 - kVA_r). • 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 and sockets	<ul style="list-style-type: none"> • Plinth row for connection from ACP to LTS panel. • Power cables connection to terminals board (Internal). 		

AUTOMATIC CONTROL PANEL (AMF)		MSW65P	MSW80P	MSW110P
	Digital instrumentation through AC01 control unit.	<ul style="list-style-type: none"> • Generating set voltage (3 phases on three phase and 1 phase on single phase). • Mains voltage. • Generating set frequency. • Generating set current (3 phases on three phase and 1 phase on single phase). • Battery voltage. • Power (kVA - kW - kVA_r). • Power factor Cos φ. • Hours-counter. • Engine speed r.p.m. • Fuel level (%). 		
	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 - 90A.	IV poles - 110A.	IV poles - 200A.
	Protections with alarm	<ul style="list-style-type: none"> • Engine protection: low oil pressure, high engine temperature, low fuel level. • 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 protection: low oil pressure, high engine temperature, low fuel level. • 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)

>	PHS: COOLANT PREHEATING SYSTEM.
---	--

ACCESSORIES

> LOAD TRANSFER SWITCH PANEL.		MSW65P	MSW80P	MSW110P
	Change over contactors	IV poles - 90A.	IV poles - 110A.	IV poles - 200A.
	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. 		
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.			