

STAR / WATER COOLED

# MSW Series

## 15-45P







Designed to be multipurpose, strong and user friendly.  
Suitable for numerous applications due to large list of optional extras.  
High quality standards and reliability.



### Main applications:

- Construction
- Mobile Workshop
- Emergency stand-by (residential / industry)
- Prime power applications

	<p><b>BASE FRAME MADE OF WELDED STEEL PROFILE, COMPLETE WITH:</b></p> <ul style="list-style-type: none"> <li>• Steel base frame with support legs (welded or screwed)</li> <li>• Anti-vibration mountings properly sized</li> <li>• Grounding point to connect all metal parts of the generator</li> </ul>		<p><b>EXHAUST SILENCER WITH RAIN FLAP</b></p>
	<p><b>MOVING AND ROTATING PARTS PROTECTION AGAINST ACCIDENTAL CONTACTS</b></p>		<p><b>NICHE FOR EXTERNAL EMERGENCY PUSH-BUTTON</b></p>

GENERATING SET	MSW15P		MSW25P		MSW30P		MSW45P	
<b>MAIN DATA</b>								
POWER RATING	kVA	kWe	kVA	kWe	kVA	kWe	kVA	kWe
STAND BY POWER - LTP	17,5	14,0	25,0	20,0	38,4	30,7	57,0	45,6
PRIME POWER - PRP	15,8	12,7	23,6	18,9	35,9	28,7	54,0	43,2
VOLTAGE	220V		220V		220V		220V	
FREQUENCY	60Hz		60Hz		60Hz		60Hz	
<b>DIESEL ENGINE</b>								
BRAND	Perkins		Perkins		Perkins		Perkins	
MODEL	403D-15G		404D-22G		1103A-33G		1103A-33TG1	
NUMBER OF CYLINDERS / DISPLACEMENT (cc)	3 in line / 1496		4 in line / 2216		3 in line / 3300		3 in line / 3300	
ASPIRATION	Natural		Natural		Natural		Turbocharged	
COOLING SYSTEM	Water		Water		Water		Water	
STARTING SYSTEM / ELECTRIC CIRCUIT (Volt)	Electric / 12 V		Electric / 12 V		Electric / 12 V		Electric / 12 V	
SPEED (rpm)	1800		1800		1800		1800	
SPEED GOVERNOR (Type)	Mechanical		Mechanical		Mechanical		Mechanical	
STAND-BY POWER (LTP) (kWm)	16,2		24,3		36,5		55,6	
PRIME POWER (PRP) (kWm)	14,7		22,0		33,2		50,5	
FUEL CONSUMPTION @ 75% PRP (l/h)	3,3		4,7		6,6		9,8	
<b>ALTERNATOR</b>								
TYPE	Brushless		Brushless		Brushless		Brushless	
POLES	4		4		4		4	
VOLTAGE REGULATION SYSTEM	Electronic		Electronic		Electronic		Electronic	
<b>GENSET VERSION</b>								
	<b>CANOPY</b>		<b>CANOPY</b>		<b>CANOPY</b>		<b>CANOPY</b>	
<b>FUEL TANK</b>								
MATERIAL	Plastic		Plastic		Plastic		Plastic	
CAPACITY (L)	68		68		68		68	
AUTONOMY @ 75% PRP (h)	20,7		14,6		10,3		7,0	
<b>NOISE LEVEL</b>								
NOISE POWER (LWA) - dB(A)	87		87		93		95	
NOISE PRESSURE @ 7 m - dB(A)	58		58		64		66	
<b>OVERALL DIMENSIONS</b>								
LENGTH (mm)	1800		1800		2000		2000	
WIDTH (mm)	850		850		920		920	
HEIGHT (mm)	1260		1260		1310		1310	
DRY WEIGHT (Kg)	745		734		877		958	



### MCP - Manual control panel

Mounted on the generator and complete of: analogue instrumentation, control, module for engine protection, secured with lockable door.

#### INSTRUMENTATION (ANALOGUE)

- Voltmeter (1 phase)
- Ammeter (1 phase)
- Hour meter

#### COMMANDS

- Start/stop selector switch with key
- Emergency stop button

#### PROTECTION WITH ALARM

- Low fuel level
- Battery charger failure
- Low oil pressure
- High engine temperature
- Earth Fault

#### PROTECTION WITH SHUTDOWN

- Low fuel level
- Battery charger failure
- Low oil pressure
- High engine temperature
- Circuit breaker protection: III poles
- Emergency stop button

#### OTHER PROTECTION

- Panel secured with lockable door

#### POWER OUTPUT

- Power cables connection to Circuit Breaker



### ACP - Automatic control panel

Automatic control panel mounted on the generator, complete with digital control unit AMF26P for monitoring, control and module for engine protection

#### DIGITAL INSTRUMENTATION (AMF-26P)

- Generator voltage (3 phases)
- Mains voltage
- Generator frequency
- Generator current (3 phases)
- Battery voltage
- Power (kVA - kW - kVA<sub>r</sub>)
- Power factor Cos  $\phi$
- Hours-counter
- Engine speed r.p.m.
- Fuel level (%)
- Engine temperature (depending on model)

#### COMMANDS AND OTHER

- Four operation modes: OFF - Manual starting - Automatic starting - Automatic test
- Push-button for forcing Mains contactor or Genset contactor
- Push-buttons: start/stop, fault reset, up/down/page/enter selection
- Remote starting availability
- DC system disconnection switch
- Acoustic alarm
- Automatic battery charger
- RS232 Communication port
- Password security option

#### PROTECTIONS WITH ALARM

- Engine protections: low fuel level, low oil pressure, high engine temperature
- Generator protections: under/over voltage, overload, under/over frequency, starting failure, under/over battery voltage

#### PROTECTIONS WITH SHUTDOWN

- Engine protections: low fuel level, low oil pressure, high engine temperature
- Generator protection: under/over voltage, overload, under/over battery voltage, battery charger failure
- Circuit breaker protection: III poles
- Earth Fault included in the control unit

#### OTHERS PROTECTIONS

- Emergency stop button
- Panel protected through door with lockable handle

#### OUTPUT PANEL ACP

- Plinth row for connection from ACP to LTS panel
- Power cables connection to Circuit Breaker



[www.masonsgenerators.com](http://www.masonsgenerators.com)

**MASONS DISTRIBUTOR IN YOUR AREA IS:**

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