

MSW Series

65-220D



Designed both for residential and industrial areas, these generators are suitable for many applications. Reliable, with high quality standards and a large list of optional extras.



Main applications:

- Construction
- Mobile Workshop
- Emergency stand-by (residential / industry)
- Island/Mains synchro (from 100kVA)



PLASTIC FUEL TANK (CANOPY VERSION) COMPLETE WITH THE FOLLOWING COMPONENT:

- Filler neck
- Air breather (ventilation pipe)
- Minimum fuel level sensor



HEAVY DUTY ANTI-VIBRATION MOUNTS FOR DAMPING, REDUCING VIBRATION AND SHOCK PROTECTION



NOISE ATTENUATION THANKS TO SOUNDPROOFING MATERIAL (ROCK WOOL)



CANOPY VERSION PROVIDED WITH SINGLE DETACHABLE LIFTING EYE PLACED ON THE ROOF

GENERATING SET	MSW65D		MSW80D		MSW110D		MSW150D		MSW170D		MSW220D	
MAIN DATA												
POWER RATING	kVA	kWe	kVA	kWe	kVA	kWe	kVA	kWe	kVA	kWe	kVA	kWe
STAND BY POWER - LTP	71,1	59,3	90,0	72,0	113,0	90,4	145,9	116,7	178,2	142,6	247,6	198,1
PRIME POWER - PRP	66,3	53,1	79,8	63,8	107,4	85,9	132,2	105,7	169,0	135,2	223,2	178,6
VOLTAGE	480 V		480 V		480 V		480 V		480 V		480 V	
FREQUENCY	60Hz		60Hz		60Hz		60Hz		60Hz		60Hz	
DIESEL ENGINE												
BRAND	Deutz		Deutz		Deutz		Deutz		Deutz		Deutz	
MODEL	BF4M2012		BF4M2012C		BF4M1013EC		BF4M1013FC		BF6M1013EC		BF6M1013FC G3	
NUMBER OF CYLINDERS / DISPLACEMENT (cc)	4 in line / 4040		4 in line / 4040		4 in line / 4760		4 in line / 4760		6 in line / 7150		6 in line / 7150	
ASPIRATION	Turbo		Turbo		Turbo		Turbo		Turbo		Turbo	
COOLING SYSTEM	Water		Water		Water		Water		Water		Water	
STARTING SYSTEM / ELECTRIC CIRCUIT (Volt)	Electric / 12V		Electric / 12V		Electric / 12V		Electric / 12V		Electric / 12V		Electric / 12V	
SPEED (rpm)	1800		1800		1800		1800		1800		1800	
SPEED GOVERNOR (Type)	Mechanical		Mechanical		Mechanical		Electronic		Mechanical		Electronic	
STAND-BY POWER (LTP) (kWm)	59,5		70,7		94,8		115,3		146,3		191,6	
PRIME POWER (PRP) (kWm)	66,5		79,7		99,8		127,3		154,3		212,5	
FUEL CONSUMPTION @ 75% PRP (l/h)	11,7		13,7		19,6		21,3		27,7		36,3	
ALTERNATOR												
TYPE	Brushless		Brushless		Brushless		Brushless		Brushless		Brushless	
POLES	4		4		4		4		4		4	
VOLTAGE REGULATION SYSTEM	Electronic		Electronic		Electronic		Electronic		Electronic		Electronic	
GENSET VERSION												
	OPEN CANOPY		OPEN CANOPY		OPEN CANOPY		OPEN CANOPY		OPEN CANOPY		OPEN CANOPY	
FUEL TANK												
MATERIAL	Plastic		Plastic		Plastic		Plastic		Plastic		Plastic	
CAPACITY (L)	123		123		360		360		360		360	
AUTONOMY @ 75% PRP (h)	10,5		9,0		18,4		16,9		13,0		9,9	
NOISE LEVEL												
NOISE POWER [LWA] - dB(A)	-	96	-	96	-	97	-	97	-	97	-	97
NOISE PRESSURE @ 7 m - dB(A)	-	67	-	67	-	68	-	68	-	68	-	68
OVERALL DIMENSIONS												
LENGTH (mm)	2100	2410	2100	2410	2330	3010	2330	3010	2700	3400	2700	3400
WIDTH (mm)	1070	1000	1070	1000	1070	1180	1070	1180	1160	1250	1160	1250
HEIGHT (mm)	1600	1540	1600	1540	1650	1780	1700	1780	1700	1780	1800	2000
DRY WEIGHT (Kg)	1089	1255	1129	1290	1381	1745	1466	1823	1754	2184	1851	2595



ACP - Automatic control panel

Automatic control panel mounted on the genset, complete with digital control unit AMF26P for monitoring, control and protection of the generator.

DIGITAL INSTRUMENTATION (AMF-26P)

- Generator voltage (3 phases)
- Mains voltage
- Generator frequency
- Generator current (3 phases)
- Battery voltage
- Power (kVA - kW - kVAr)
- Power factor Cos ϕ
- Hour meter
- Engine speed r.p.m.
- Fuel level (%)
- Engine temperature (depending on model)

COMMANDS AND OTHERS

- Four operation modes: OFF - Manual starting - Automatic starting - Automatic test
- Push-button for forcing Mains contactor or Generator 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

PROTECTION WITH ALARM

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

PROTECTION WITH SHUTDOWN

- Engine protection: 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

OTHER PROTECTION

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

OUTPUT PANEL ACP

- Plinth row for connection from ACP to LTS panel
- Power cable connection to circuit breaker



MPP - Modular Parallel Panel

Mounted on the genset, complete with digital control unit IG-NTC for monitoring, control, protection and load sharing for both single and multiple generators operating in standby or parallel modes (up to 32 generators in island).

DIGITAL INSTRUMENTATION (through IG-NTC control unit)

- Mains: voltage, Intensity, Frequency
- Mains kW - kVAr -Power factor Cos φ
- Generator voltage (3 phases)
- Generator frequency
- Generator current (3 phases)
- Generator Power (kVA - kW - kVAr)
- Generator Power factor Cos φ
- Generator kWh and kVAh
- Battery voltage
- Hour meter
- Engine speed r.p.m.
- Fuel level (%)
- Engine temperature (depending on model)
- Oil pressure (depending on model)

COMMAND AND OTHERS

- Graphical display 128x64 pixels
- Operation modes: OFF - AMF function - Single Parallel to mains Island application - Single Parallel to Mains AMF application - Multiple parallel generator Island application
- Push-button for forcing Mains Breaker/contactor or Generator Breaker/contactor
- Push-buttons: start/stop, fault reset, up/down/page/enter selection
- Multiple parallel and Power Management operation with digital load AVR sharing
- Automatic synchronizing and power control (via speed governor or ECU)
- Baseload Import/Export and Peak shaving
- Voltage and PF control (AVR)
- Configurable digital I/O (12/12) and analogue inputs (3)
- Integrate PLC programmable functions
- Event-based history (up to 500records)
- Selectable measurement range 120/277V and 0-1/0-5A
- Remote starting and Blocking signal availability
- DC system disconnection switch
- Acoustic alarm
- Automatic battery charger
- 2xRS232/RS485/USB Communication ports
- Password security option

PROTECTION WITH ALARM AND SHUTDOWN

- Engine Protection: low fuel level, low oil pressure, high engine temperature
- Generator Protection: under/over voltage, overload, under/over frequency, starting failure, under/over battery voltage
- Others: overcurrent, shortcircuit, reverse power, earth fault

OTHER PROTECTION

- Circuit breaker protection: 4V poles Motorized
- Emergency stop button
- Panel secured with lockable door

OUTPUT PANEL MPP

- Multi-pin connectors (in and out) for parallel with other generators
- Connecting cable with 2 connectors multipin (length 10m)
- ETB External terminal board

MASONS DISTRIBUTOR IN YOUR AREA IS:



www.masonsgenerators.com

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