MSW Series 65-220 P



Reliable, strong and versatile.

With a large list of optional extras, these generators are suitable for many applications. High quality standards guaranteed.





Main applications: • Construction

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



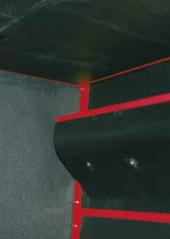


PLASTIC FUEL TANK (CANOPY VERSION) COMPLETE WITH THE FOLLOWING COMPONENT:

- 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



INTEGRATED METAL FUEL TANK (OPEN VERSION)



BASEFRAME PROVIDED WITH FEET FOR EASY HANDLING



EXHAUST SILENCER WITH RAIN FLAP



NICHE FOR EXTERNAL EMERGENCY PUSH-BUTTON

GENERATING SET	MSI	N65P	MSV	V80P	MSV	MSW110P	
MAIN DATA							
POWER RATING	kVA	kWe	kVA	kWe	kVA	kWe	
STAND BY POWER-LTP	66,9	53,5	83,0	66,4	115	92	
PRIME POWER - PRP	60,7	48,6	78,0	62,4	104	83	
VOLTAGE (VOLT)	400/230V		400/	400/230V		400/230V	
FREGUENCY	50	DHz	50Hz		50Hz		
DIESEL ENGINE							
BRAND	Perkins		Perkins		Perkins		
MODEL	11034	-33TG2	1104A	1104A-44TG2		1104C-44TAG2	
NUMBER OF CYLINDERS / DISPLACEMENT (cc)	3 in line / 3300		4 in line	4 in line / 4400		4 in line / 4410	
ASPIRATION	Turbocharged		Turboo	Turbocharged		Turbocharged	
COOLING SYSTEM	Water		Wa	Water		Water	
STARTING SYSTEM / ELECTRIC CIRCUIT (Volt)	Electric / 12V		Electric	Electric / 12V		Electric / 12V	
SPEED (rpm)	1500		1500		1500		
SPEED GOVERNOR (Type)	Mechanical		Mechanical		Electronic		
STAND-BY POWER [LTP] (kWm)	59,3		79,2		99,5		
PRIME POWER [PRP] kWm	55		73,4		90,1		
FUEL CONSUMPTION @ 75% PRP (I/h)	10,4		13,4		18,0		
ALTERNATOR							
TYPE	Brushless		Brushless		Brushless		
POLES	4		4		4		
VOLTAGE REGULATION SYSTEM	Digital		Digital		Digital		
GENSET VERSION	OPEN	CANOPY	OPEN	CANOPY	OPEN	CANOPY	
FUEL TANK							
MATERIAL	Metal	Plastic	Metal	Plastic	Metal	Plastic	
CAPACITY (L)	240	209	240	209	240	209	
AUTONOMY @ 75% PRP (h)	23,0	20,1	18,0	15,6	13,3	11,6	
NOISE LEVEL							
NOISE POWER (LWA) – dB(A)	-	96	-	96	-	96	
NOISE PRESSURE @ 7 m - dB(A)	-	67	-	67	-	67	
OVERALL DIMENSIONS							
LENGTH (mm)	2200	2285	2200	2285	2200	2400	
WIDTH (mm)	1000	920	1000	920	1000	1000	
HEIGHT (mm)	1743	1465	1743	1465	1743	1530	
DRY WEIGHT (Kg)	909	1085	964	1144	1170	1400	

GENERATING SET	MSW150P		MSW	MSW165P		MSW200P		MSW220P	
MAIN DATA									
POWER RATING	kVA	kWe	kVA	kWe	kVA	kWe	kVA	kWe	
STAND BY POWER - LTP	148	118	164	131	203	162	216	173	
PRIME POWER - PRP	138	110	153	122	183	146	196	157	
VOLTAGE (VOLT)	400/230V		400/	400/230V		400/230V		400/230V	
FREQUENCY	50Hz		50	50Hz		50Hz		50Hz	
DIESEL ENGINE									
BRAND	Perkins		Per	Perkins		Perkins		Perkins	
MODEL	1106A-70TG1		1106A-	1106A-70TAG2		1106A-70TAG3		1106A-70TAG4	
NUMBER OF CYLINDERS / DISPLACEMENT (cc)	6 in line / 7000		6 in line	6 in line / 7000		6 in line / 7000		6 in line / 7000	
ASPIRATION	Turbocharged		Turboo	Turbocharged		Turbocharged		Turbocharged	
COOLING SYSTEM	Water		Wa	Water		Water		Water	
STARTING SYSTEM / ELECTRIC CIRCUIT (Volt)	Electric / 12V		Electric / 12V		Electric / 12 V		Electric / 12 V		
SPEED (rpm)	1500		1500		1500		1500		
SPEED GOVERNOR (Type)	Mechanical		Mech	Mechanical		Mechanical		Electronic	
STAND-BY POWER [LTP] (kWm)	136,9		203,3		180,2		191,3		
PRIME POWER [PRP] kWm	123,7		19	199,7		162,7		173,9	
FUEL CONSUMPTION @ 75% PRP (I/h)	22,72		24	24,47		30,9		33,6	
ALTERNATOR									
TYPE	Brushless		Brushless		Brushless		Brushless		
POLES	4		4	4		4		4	
VOLTAGE REGULATION SYSTEM	Digital		Digital		Electronic		Electronic		
GENSET VERSION	OPEN	CANOPY	OPEN	CANOPY	OPEN	CANOPY	OPEN	CANOPY	
FUEL TANK									
MATERIAL	Metal	Plastic	Metal	Plastic	Metal	Plastic	Metal	Plastic	
CAPACITY (L)	240	350	240	350	240	350	240	350	
AUTONOMY @ 75% PRP (h)	10,6	15,4	9,8	14,3	7,8	11,3	7,1	10,4	
NOISE LEVEL									
NOISE POWER [LWA] - dB(A)		97		97		97		97	
NOISE PRESSURE @ 7 m - dB(A)	-	68	-	68	-	68	-	68	
OVERALL DIMENSIONS									
LENGTH (mm)	2600	3000	2600	3000	2600	3400	2600	3400	
WIDTH (mm)	1000	1150	1000	1150	1000	1250	1000	1250	
HEIGHT (mm)	1743	1760	1743	1760	1743	1770	1743	1770	
DRY WEIGHT (Kg)	1417	2080	1451	2038	1980	2088	2030	2138	



MCP - Manual control panel

Mounted on the generator and complete with 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 protection of the generator.

DIGITAL INSTRUMENTATION (AMF-26P)

- Mains voltage
- Generator voltage (3 phases)
- Generator frequency
- Generator current (3 phases)
- Battery voltage
- Hour meter

COMMANDS AND OTHER

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

PROTECTION

- Engine protection: low oil pressure, high engine temperature
- Generator protection: under/over voltage, overload, under/over battery voltage
- Circuit breaker protection: III poles
- Differential protection

OUTPUT PANEL ACP

• Plinth row for connection from ACP to LTS panel



MPP - Modular Parallel Panel

Mounted on the generator, 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 OTHER

- 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 governoer or ECU)
- Base load 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, short-circuit, reverse power, earth fault

OTHER PROTECTION

- Circuit breaker protection: IV 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



KPR - PREMIUM KIT

To upgrade the generator equipment with a leak proof tray, leak detection sensor and manual lube oil drain pump



EFT - EXTENDED FUEL TANK

Larger metal fuel tank integrated in a bigger base frame allowing longer generator autonomy, at least till 48h at 75% PRP. Provided with pull bars and drainage facility



AFP - AUTOMATIC FUEL PUMP

Automatic fuel transfer system from an external storage fuel tank to the one integrated in the generator



LTS - LOAD TRANSFER SWITCH

To allow load transferring operations from Mains to generator and vice-versa. Up to 140A equipped with contactors and from 160A equipped with motorized changeover switch



RCG - REMOTE CONTROL

Large list of additional modules/devices for remote operation and control of the generator



www.masonsgenerators.com

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