



MSW Series

110-705V

Multipurpose, strong and reliable, these generators meet high quality standards. Available in a large range of models to serve the most demanding customer needs. Suitable both for residential and industrial areas.



Main applications:

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



**FUEL WATER
FILTER SEPARATOR**



**MOVING AND
ROTATING PARTS
PROTECTION**



**MANUAL OIL
DRAIN PUMP
(FROM MSW275V)**



MUFFLER RAIN CAP



**EASY ACCESS
FOR MAINTENANCE**



**FIREPROOF NOISE
ATTENUATION
MATERIAL**



**SINGLE LIFTING EYE
(UP TO MSW220V)**



**DOUBLE LIFTING
POINTS FRAME
STRUCTURE (FROM
MSW275V)**



**DIGITAL CONTROL
UNIT FOR ACP**



**EMERGENCY
PUSH-BUTTON**



**EXTERNAL TERMINAL
BOARD (OPTIONAL UP
TO MSW220V)**



**POWER TERMINALS
(STANDARD FROM
MSW275V)**

GENERATING SET	MSW110V		MSW150V		MSW170V		MSW220V		
MAIN DATA									
POWER RATING	kVA	kWe	kVA	kWe	kVA	kWe	kVA	kWe	
STAND BY POWER - LTP	122	98	152	122	183	146	251	201	
PRIME POWER - PRP	109	87	136	109	164	131	225	180	
VOLTAGE	380		380		380		380		
FREQUENCY	60Hz		60Hz		60Hz		60Hz		
DIESEL ENGINE									
BRAND	Volvo		Volvo		Volvo		Volvo		
MODEL	TAD531GE		TAD532GE		TAD731GE		TAD733GE		
NUMBER OF CYLINDERS / DISPLACEMENT (cc)	4 in line / 4760		4 in line / 4760		6 in line / 7150		6 in line / 7150		
ASPIRATION	Turbocharged intercooled		Turbocharged intercooled		Turbocharged intercooled		Turbocharged intercooled		
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		Electronic		
STAND-BY POWER [LTP] (kWm)	114,2		137,7		162,7		224,5		
PRIME POWER [PRP] (kWm)	103,2		123,7		146,7		202,5		
FUEL CONSUMPTION @ 75% PRP (l/h)	21,0		24,5		29,3		40,4		
ALTERNATOR									
TYPE	Brushless		Brushless		Brushless		Brushless		
POLES	4		4		4		4		
VOLTAGE REGULATION SYSTEM	Electronic		Electronic		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	400	350	
AUTONOMY @ 75% PRP (h)	11,4	16,7	9,8	14,3	8,2	13,0	9,9	8,7	
NOISE LEVEL									
NOISE POWER [LWA] - dB(A)	-	97	-	97	-	97	-	94	
NOISE PRESSURE @ 7 m - dB(A)	-	68	-	68	-	68	-	65	
OVERALL DIMENSIONS									
LENGTH (mm)	2200	3000	2200	3000	2600	3400	2650	3400	
WIDTH (mm)	1000	1150	1000	1150	1000	1250	1180	1250	
HEIGHT (mm)	1743	1760	1743	1760	1743	1770	1965	1980	
DRY WEIGHT (Kg)	1433	1727	1491	1727	1796	2224	2238	2540	

GENERATING SET	MSW275V		MSW330V		MSW370V		MSW415V	
MAIN DATA								
POWER RATING	kVA	kWe	kVA	kWe	kVA	kWe	kVA	kWe
STAND BY POWER - LTP	287	230	396	317	444	355	461	369
PRIME POWER - PRP	255	204	378	302	407	325	419	335
VOLTAGE	380		380		380		380	
FREQUENCY	60Hz		60Hz		60Hz		60Hz	
DIESEL ENGINE								
BRAND	Volvo		Volvo		Volvo		Volvo	
MODEL	TAD734GE		TAD1342GE		TAD1342GE		TAD1343GE	
NUMBER OF CYLINDERS / DISPLACEMENT (cc)	6 in line / 7150		6 in line / 12780		6 in line / 12780		6 in line / 12780	
ASPIRATION	Turbocharged intercooled		Turbocharged intercooled		Turbocharged intercooled		Turbocharged intercooled	
COOLING SYSTEM	Water		Water		Water		Water	
STARTING SYSTEM / ELECTRIC CIRCUIT (Volt)	Electric / 24 V		Electric / 24 V		Electric / 24 V		Electric / 24 V	
SPEED (rpm)	1800		1800		1800		1800	
SPEED GOVERNOR (Type)	Electronic		Electronic		Electronic		Electronic	
STAND-BY POWER (LTP) (kWm)	263,0		395,0		395,0		406,0	
PRIME POWER (PRP) (kWm)	236,0		363,0		363,0		371,0	
FUEL CONSUMPTION @ 75% PRP (l/h)	47,9		61,1		65,8		67,2	
ALTERNATOR								
TYPE	Brushless		Brushless		Brushless		Brushless	
POLES	4		4		4		4	
VOLTAGE REGULATION SYSTEM	Electronic		Electronic		Electronic		Electronic	
GENSET VERSION								
	OPEN	CANOPY	OPEN	CANOPY	OPEN	CANOPY	OPEN	CANOPY
FUEL TANK								
MATERIAL	Plastic		Plastic		Plastic		Plastic	
CAPACITY (L)	636		636		636		636	
AUTONOMY @ 75% PRP (h)	13,3		10,4		9,7		9,5	
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)	2672	3951	3300	3951	3300	3951	3300	3951
WIDTH (mm)	1181	1438	1460	1438	1460	1438	1400	1438
HEIGHT (mm)	1844	2085	1913	2085	1913	2085	1913	2085
DRY WEIGHT (Kg)	2177	2990	3020	3671	3160	3671	3050	3671

GENERATING SET	MSW460V		MSW560V		MSW600V		MSW705V	
MAIN DATA								
POWER RATING	kVA	kWe	kVA	kWe	kVA	kWe	kVA	kWe
STAND BY POWER - LTP	512	409	650	520	696	557	770	616
PRIME POWER - PRP	466	372	577	462	633	506	700	560
VOLTAGE	380		380		380		380	
FREQUENCY	60Hz		60Hz		60Hz		60Hz	
DIESEL ENGINE								
BRAND	Volvo		Volvo		Volvo		Volvo	
MODEL	TAD1344GE		TAD1641GE		TAD1642GE		TWD1643GE	
NUMBER OF CYLINDERS / DISPLACEMENT (cc)	6 in line / 12780		6 in line / 16120		6 in line / 16120		6 in line / 16120	
ASPIRATION	Turbocharged intercooled		Turbocharged intercooled		Turbocharged intercooled		Turbocharged intercooled	
COOLING SYSTEM	Water		Water		Water		Water	
STARTING SYSTEM / ELECTRIC CIRCUIT (Volt)	Electric / 24 V		Electric / 24 V		Electric / 24 V		Electric / 24 V	
SPEED (rpm)	1800		1800		1800		1800	
SPEED GOVERNOR (Type)	Electronic		Electronic		Electronic		Electronic	
STAND-BY POWER [LTP] (kWm)	449,0		565,0		604,0		674,0	
PRIME POWER [PRP] (kWm)	410,0		504,0		551,0		615,0	
FUEL CONSUMPTION @ 75% PRP (l/h)	74,1		91,7		97,7		109,2	
ALTERNATOR								
TYPE	Brushless		Brushless		Brushless		Brushless	
POLES	4		4		4		4	
VOLTAGE REGULATION SYSTEM	Electronic		Electronic		Electronic		Electronic	
GENSET VERSION								
	OPEN	CANOPY	OPEN	CANOPY	OPEN	CANOPY	OPEN	CANOPY
FUEL TANK								
MATERIAL	Plastic		Plastic		Plastic		Plastic	
CAPACITY (L)	636		636		636		636	
AUTONOMY @ 75% PRP (h)	8,6		6,9		6,5		5,8	
NOISE LEVEL								
NOISE POWER [LWA] - dB(A)	-	98	-	105	-	105	-	105
NOISE PRESSURE @ 7 m - dB(A)	-	69	-	75	-	75	-	75
OVERALL DIMENSIONS								
LENGTH (mm)	3300	3951	3500	4400	3500	4400	3800	4700
WIDTH (mm)	1460	1438	1500	1560	1500	1560	1670	1757
HEIGHT (mm)	1913	2085	2120	2250	2120	2250	2320	2510
DRY WEIGHT (Kg)	3370	3671	3467	4495	3620	4888	4590	5490

**MCP - Manual control panel (up to MSW220V)**

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 protected through door with lockable handle

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)

- 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 goveroner 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
- Other: 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



www.masonsgenerators.com

MASONS DISTRIBUTOR IN YOUR AREA IS:

A large, empty white rectangular box intended for listing the distributor in the area.

PR MIDDLE EAST FZE

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